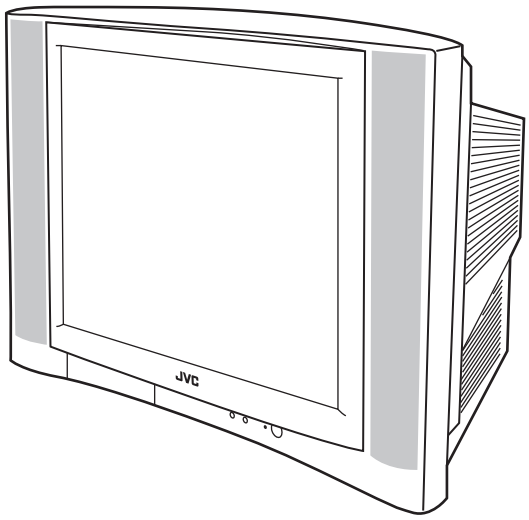
JVC

SERVICE MANUAL

FLAT COLOUR TELEVISION

AV-29WX14 /G
AV-29WX14 /S
AV-29WX24 /L
AV-2954W /E

BASIC CHASSIS
CW



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SPECIFICATION

Items		Contents		
		AV-29WX14/G	AV-29WX14/S AV-29WX24/L	AV-2954W/E
Dimentions (W x H x D)		81.2cm x 58.4cm x 51.8cm		
Mass		41kg		43kg
TV RF System		B, G, I, D, K, M		
Colour System	TV Mode	PAL / SECAM / NTSC3.58 / NTSC 4.43		
	Video Mode	PAL / SECAM / NTSC3.58 / NTSC4.43		
Stereo System		Playback		A2(B/G) / NICAM(B/G,I,D/K)
Teletext system		FLOF (Fastext), WST (World Standard Text)		
Receiving Frequency	VHF Low	46.25MHz ~ 140.25MHz (AS0 ~ S6)		
	VHF High	147.25MHz ~ 423.25MHz (S7 ~ S36)		
	UHF	431.25MHz ~ 863.25MHz (S37 ~ CHINA 57)		
	CATV	Mid: X ~ Z, S1 ~ S10		
		Super: S11 ~ S20		
		Hyper: S21 ~ S41		
Intermediate Frequency	VIF	38.0MHz		
	SIF	D/K: 31.5MHz (6.5MHz) [NICAM: 32.15MHz (5.85MHz)] I: 32.0MHz (6.0MHz) [NICAM: 31.45MHz (6.55MHz)] B/G: 32.5MHz (5.5MHz) [A2: 32.26MHz (5.74MHz)] [NICAM: 32.15MHz (5.85MHz) M: 33.5MHz (4.5MHz)	D/K: 31.5MHz (6.5MHz) I: 32.0MHz (6.0MHz) B/G: 32.5MHz (5.5MHz) M: 33.5MHz (4.5MHz)	D/K: 31.5MHz (6.5MHz) [NICAM: 32.15MHz (5.85MHz)] I: 32.0MHz (6.0MHz) [NICAM: 31.45MHz (6.55MHz)] B/G: 32.5MHz (5.5MHz) [A2: 32.26MHz (5.74MHz)] [NICAM: 32.15MHz (5.85MHz) M: 33.5MHz (4.5MHz)
Colour Sub Carrier Frequency		4.43MHz (PAL), 4.40MHz / 4.25MHz (SECAM), 3.58MHz / 4.43MHz (NTSC)		
Aerial Input Terminal		75Ω unbalanced, coaxial		
Power Input		AC110V ~ AC240V, 50Hz / 60Hz		
Power Consumption		166W (Max.) / 109 W (Avg.)		
Picture Tube ⚠		A68LZU185X		A68QCU770X52K
		29-inch, aspect ratio 4:3, flat square face type, tinted Visible size: 67.6cm (Diagonal) / 54.1cm x 40.6cm (H x V)		
High Voltage		32kV -1.5kV / +1.0kV (at zero beam current)		
Speaker		6.5cm x 13cm, oval type x 2		
Audio Output		10W + 10W		
Video / Audio Input (1/2/3)	S-Video [1]	Mini-DIN 4pin Y : 1V (p-p), positive (negative sync provided), 75Ω C : 0.286V (p-p) (Burst signal), 75Ω		
	Video [1/2/3]	1V (p-p), negative sync, 75Ω, RCA pin jack x 3		
	Audio [1/2/3]	500mV (rms) (-4dBs), High impedance, RCA pin jack x 6		
	Component Video [2]	RCA pin jack x 3 Y: 1V(p-p), positive (negative sync), 75Ω CB/CR : 0.7V(p-p), 75Ω		
Video / Audio Output	Video	1V (p-p), 75Ω, RCA pin jack x 1		
	Audio	500mV (rms) (-4dBs), Low inpedance (400Hz when modulated 100%), RCA pin jack x 2		
Headphone		3.5mm stereo mini jack		
Remote Control Unit		RM-C1281-2H (AA/R06/UM-3 battery x 2)	RM-C1280-2H (AA/R06/UM-3 battery x 2)	

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.).
If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

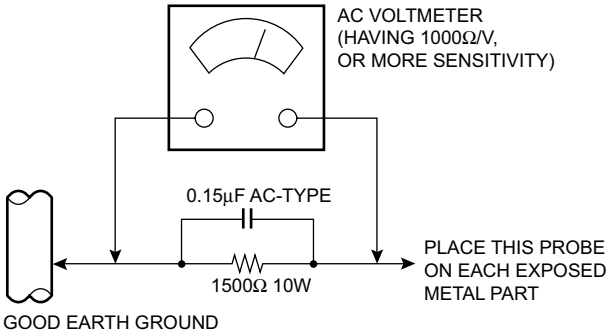
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check**
(Safety for Electrical Shock Hazard)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternative Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

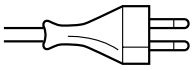
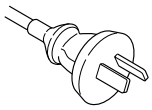
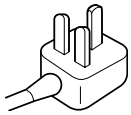


SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

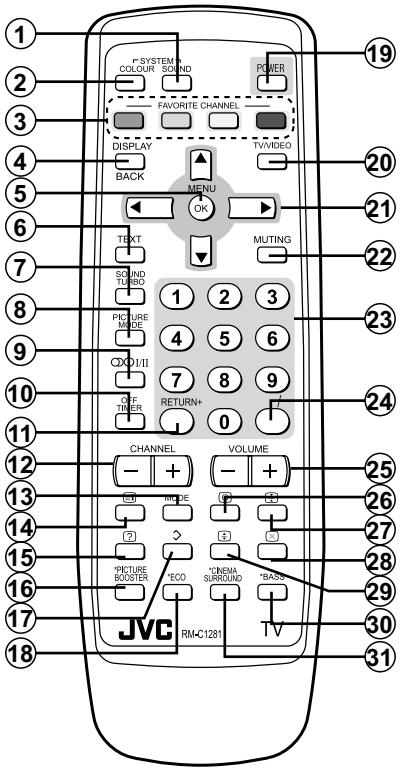
- New chassis design enables use of an interactive on-screen control.
- Pure flat CRT produces fine textured picture in every detail.
- Wide range voltage (110V ~ 240V) for AC power input.
- With AUDIO/VIDEO/S-VIDEO/COMPONENT input terminals.
- I^2C bus control utilizes single chip ICs.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in DIGITAL ECO MODE (ECONOMY, ECOLOGY).
  In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Built-in OFF TIMER & RETURN +.

2.2 MAIN DIFFERENCE LIST

⚠	Items	AV-29WX14/G	AV-29WX14/S	AV-29WX24/L	AV-2954W/E
⚠	MAIN PWB ASS'Y	SCW-1012A-H2	SCW-1025A-H2	SCW-1068A-H2	SCW-1013A-H2
⚠	FRONT CABINET ASS'Y	GG10189-002A-H	←	GG10189-006A-H	GG10189-011A-H
⚠	PICTURE TUBE	A68LZU185X	←	←	A68QCU770X52K
⚠	POWER CORD	QMPR340-165-K2 	QMPR650-165-JC 	QMPR340-165-K2 	←

2.3 FUNCTIONS

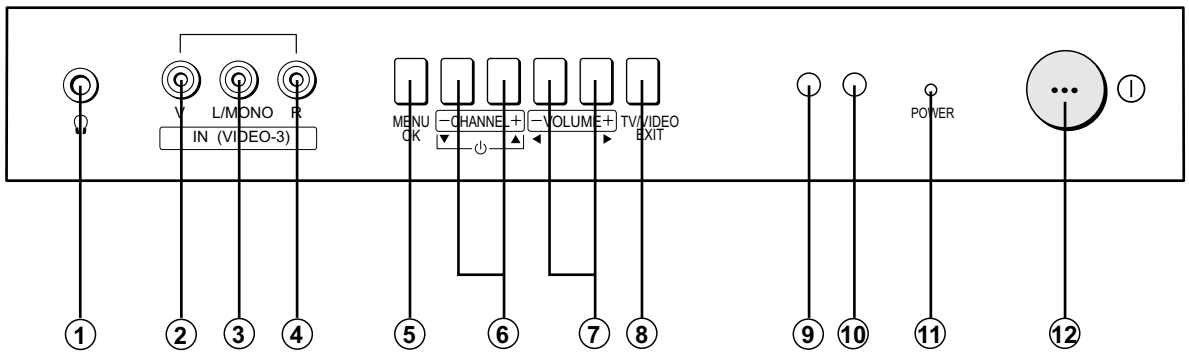
■ **REMOTE CONTROL UNIT**
RM-C1281-2H



①	SOUND SYSTEM key
②	COLOUR SYSTEM key
③	FAVORITE CHANNEL keys
④	DISPLAY BACK key
⑤	MENU (OK) key
⑥	TEXT key
⑦	SOUND TURBO key
⑧	PICTURE MODE key
⑨	SOUND setting key (Stereo/Bilingual Ⅰ/Bilingual Ⅱ/Monaural)
⑩	OFF TIMER key
⑪	RETURN + key
⑫	CHANNEL (-/+) keys
⑬	MODE key
⑭	INDEX key
⑮	REVEAL key
⑯	Not used

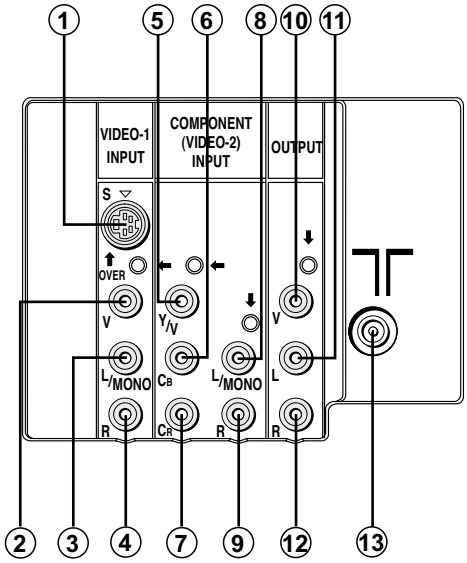
⑰	STORE key
⑱	ECO key
⑲	POWER key
⑳	TV / VIDEO key
㉑	MENU (▲/▼, ◀/▶) keys
㉒	MUTING key
㉓	Number keys
㉔	-/-- key
㉕	VOLUME (-/+) keys
㉖	SUBPAGE key
㉗	HOLD key
㉘	CANCEL key
㉙	SIZE key
㉚	BASS key
㉛	CINEMA SURROUND key

■ FRONT PANEL CONTROLS



①	HEADPHONE jack
②	IN (VIDEO-3) : VIDEO
③	IN (VIDEO-3) : AUDIO L/MONO
④	IN (VIDEO-3) : AUDIO R
⑤	MENU (OK) button
⑥	CHANNEL (-/+) buttons
⑦	VOLUME (-/+) buttons
⑧	TV/VIDEO EXIT buttons
⑨	Remote control sensor
⑩	ECO sensor
⑪	POWER lamp
⑫	MAIN POWER button

■ REAR TERMINAL



VIDEO-1 INPUT TERMINAL

①	S-VIDEO
②	VIDEO
③	AUDIO L/MONO
④	AUDIO R

COMPONENT (VIDEO-2) INPUT TERMINAL

⑤	Y/VIDEO
⑥	C_B
⑦	C_R
⑧	AUDIO L/MONO
⑨	AUDIO R

OUTPUT TERMINAL

⑩	VIDEO
⑪	AUDIO L
⑫	AUDIO R

⑬	Aerial input terminal

IC701 Pin Function List (1/2)

Pin no.	Terminal name	Port name	I/O	Remark
1	VssP2	VSSP2	-	GND
2	VssC4	VSSC4	-	GND
3	V1.8C4	VDDC4	I	1.8V (Digital)
4	V3.3A3	VDDA3(3.3V)	I	3.3V
5	VrefP_Sdac	VREF_POS_LSL	I	3.3V (Positive)
6	VrefN_Sdac	VREF_NEG_LSL+HPL	-	GND
7	VrefP_Sdac	VREF_POS_LSR+HPR	I	3.3V (Negative)
8	VrefN_Sdac	VREF_NEG_HPL+HPR	-	GND
9	VrefP_Sdac	VREF_POS_HPR	I	3.3V (Positive)
10	XtalIn	XTALIN	I	Crystal oscillator input (24.576 MHz)
11	XtalOut	XTALOUT	O	Crystal oscillator input (24.576 MHz)
12	VssA1	VSSA1	-	GND
13	NECK	VGUARD/SWIO	I	V-guard input/ I/O switch
14	CONT	DECDIG	I	Decoupling digital supply
15	V5P1	VP1	I	+5V
16	Ph2	PH2LF	-	Phase-2 filter
17	Ph1	PH1LF	-	Phase-1 filter
18	Gnd1	GND1	-	GND
19	SecPll	SECPLL	-	SECAM PLL decoupling
20	Dec8G	DECBG	-	Bandgap decoupling
21	EW	EWD/AVL	O	East-West drive output or AVL capacitor
22	VDRB-	VDRB	O	Vertical drive B output
23	VDRA+	VDRA	O	Vertical drive A output
24	Vif1	VIFIN1	I	IF input 1
25	Vif2	VIFIN2	I	IF input 2
26	Vsc	VSC	-	Vertical sawtooth capacitor
27	Iref	IREF	I	Reference current input
28	GndIF	GNDIF	-	GND
29	Sif1	SIFIN1/DVBIN1	I	SIF input 1
30	Sif2	SIFIN2/DVBIN2	I	SIF input 2
31	AGC	AGCOUT	O	Tuner AGC output
32	EHT	EHTO	I	EHT/overvoltage protection input
33	Ssif/RefIn/Avl/RefOut	AVL/SWO/SSIF/REFO/REFIN	O	Automatic Volume Levelling/ sound IF input / subcarrier reference output / external reference signal input for I signal mixer for DVB operation
34	L3	AUDIOIN5L	I	Audio-L3 input (left signal)
35	R5	AUDIOIN5R	I	Audio-R3 input (right signal)
36	L_OUT	AUDOUTSL	O	Audio L output
37	R_OUT	AUDOUTSR	O	Audio R output
38	DecsDem	DECSDEM	-	Decoupling sound demodulator
39	QssO/AmO/AudeEm	QSSO/AMOUT/AUDEEM	O	QSS intercarrier output / AM output / deemphasis / (front-end audio out)
40	Gnd2	GND2	-	GND
41	PllIf	PLLIF	-	IF-PLL loop filter
42	SifAgc	SIFAGC/DVBAGC	-	AGC sound IF
43	IfVo/FmRo/DvbO	DVBO/IFVO/FMRO	O	Not used
44	NC	DVBO/FMRO	O	Not used
45	V8AudioSwitches	VCC8V	I	8V
46	AgcSsif	AGC2SIF	-	AGC capacitor second sound IF
47	V5P2	VP2	I	5V
48	V_OUT	IFVO/SVO/CVBSI	O	Video output
49	L1	AUDIOIN4L	I	Audio-L1 input
50	R1	AUDIOIN4R	I	Audio-R1 input
51	V3	CVBS4/Y4	I	Video V3
52	C4	C4	I	Not used
53	Audio2InL	AUDIOIN2L	I	Not used
54	Audio2InR	AUDIOIN2R	I	Not used
55	V2/Y	CVBS2/Y2	I	Component Y/Video V2
56	L2	AUDIOIN3L	I	Audio L2 input (Left signal)
57	R2	AUDIOIN3R	I	Audio R2 input (right signal)
58	Y3/Cvbs	CVBS3/Y3	I	S-Video Y1
59	C1	C2/C3	I	S-Video C1
60	AudioLsL	AUDOUTLSL	O	Audio L output for audio power amplifier
61	AudioLsR	AUDOUTLSR	O	Audio R output for audio power amplifier
62	HP_L	AUDOUTHPL	O	Headphone L
63	HP_R	AUDOUTHPR	O	Headphone R
64	CVBSO/PIP	CVBSO/PIP	O	CVBS / PIP output

IC701 Pin Function List (2/2)

Pin no.	Terminal name	Port name	I/O	Remark
65	SVM	SVM	O	Scan velocity modulation output
66	FbiSo	FBISO/CSY	I	Flyback input/sandcastle output or composite H/V timing output
67	Hout	HOUT	O	Horizontal output
68	VssComb	VSScomb	-	GND
69	V5Comb	VDDcomb	I	5V
70	Vin/R2/Pr	VIN (R/PRIN2/CX)	I	PIP R input
71	Uin/B2/Pb	UIN (B/PBIN2)	I	PIP B input
72	Yin/G2/Y	YIN (G/YIN2/CVBS-YX)	I	PIP G input
73	Ysync	YSYNC	I	Not used
74	Yout	YOUT	O	Not used
75	Uout/INSSW2	UOUT (INSSW2)	O	RGB / YPBPR insertion input
76	NC	VOUT (SWO1)	O	Not used
77	INSSW3	INSSW3	I	YPBPR insertion input
78	R3/Pr	R/PRIN3	I	Component PR input (Video-2)
79	G3/Y	G/YIN3	I	Component Y input (Video-2)
80	B3/Pb	B/PBIN3	I	Component PB input (Video-2)
81	Gnd3	GND3	-	GND
82	V5P3	VP3	I	5V
83	BCL	BCLIN	I	Beam current limiter input
84	BLKIN	BLKIN	I	Black current input
85	Rout	RO	O	R output
86	Gout	GO	O	G output
87	Bout	BO	O	B output
88	V3.3A1	VDDA1	I	3.3V
89	RefAdN	VREFAD-NEG	-	GND
90	V3.3RefAdP	VREFAD_POS	I	3.3V (Positive)
91	RefAd	VREFAD	I	3.3/2V
92	GndA	GNDA	-	GND
93	V1.8A	VDDA(1.8V)	I	1.8V
94	V3.3A2	VDDA2(3.3)	I	3.3V
95	VssADC	VSSadc	-	GND
96	V1.8ADC	VDDadc(1.8)	I	1.8V
97	REMOTE	INT0/P0.5	I	Remote control input
98	PW_LED	P1.0/INT1	I	POWER LED control
99	P11/TO	P1.1/T0	I	POWER LED control
100	V1.8C2	VDDC2	I	1.8V
101	VssC2	VSSC2	-	GND
102	COMPONENT-PIP	P0.4/12SWS	-	Not used
103	COMB_SW_NT3.5/OTHER	P0.3/12SCLK	-	Not used
104	VER_PROTECT	P0.2/12SDO2	O	XRAY PROTECT
105	S_REDUCE	P0.1/12SDO1	O	Sound control
106	P00/I2SDI1	P0.0/12SDI1/O	O	Not used
107	POWER	P1.3/T1	O	SUB POWER control
108	SCL1	P1.6/SCL	I	I2C BUS CLOCK
109	SDA1	P1.7/SDA	I/O	I2C BUS•@DATA
110	V3.3P	VDDP(3.3V)	I	3.3V
111	ROTATION	P2.0/TPWM	O	ROTATION
112	3.58/OTHER	P2.1/PWMO	O	3.58 detection
113	A_MUTE	P2.2/PWM1	O	AUDIO MUTE
114	4.5/OTHER	P2.3/PWM2	O	4.5 detection
115	PROT	P3.0/ADC0	I	PROTECT
116	ECO_IN	P3.1/ADC1	I	ECO INPUT
117	V1.8C1	VDDC1	I	1.8V (Digital)
118	DecV1V8	DECV1V8	I	1.8V
119	KEY_IN	P3.2/ADC2	I	KEY INPUT
120	VDO_DET	P3.3/ADC3	I	VDO DET IN
121	VSSC1+P1	VSSC/P	-	Digital GND
122	P24/PWM3	P24/PWM3	I	SV DET IN
123	P25/PWM4	P25/PWM4	O	GTVA_RESET
124	V1.8C3	VDDC3	I	1.8V (Digital)
125	VssC3	VSSC3	-	GND
126	P12/Int2	P1.2/INT2	I	External interrupt
127	SDA0	P1.4/RX	I/O	I2C BUS DATA (Memory)
128	SCL0		I	I2C BUS CLOCK (Memory)

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 16 screws **[A]** as shown in Fig.1.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.1.2 REMOVING THE CHASSIS (CHASSIS BASE AND CONTROL BASE)

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws **[B]** under the CHASSIS from the front cabinet as shown in Fig.1.
  (2) Withdraw the CHASSIS backward.
  (If necessary, take off the wire clamp, connectors etc.)

NOTE:

When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

3.1.3 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  (1) Remove the 4 screws **[C]** as shown in Fig.1.
  (2) When you pull out the AV TERMINAL BOARD in the direction of arrow **[D]** as shown in Fig.1, it can be removed.

3.1.4 REMOVING THE CONTROL BASE

- Remove the REAR COVER.
- Remove the CHASSIS.
  (1) While pushing down the 2 claws **[E]** as shown in Fig. 2 and pull out the CONTROL BASE in the direction of arrow **[F]** as shown in Fig. 2, the control base can be removed.
  (If necessary, take off the wire, connectors etc.)

3.1.5 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[G]** as shown in Fig.1.
  (2) Withdraw the SPEAKER backward.
  (3) Follow the same steps when removing the other hand SPEAKER.

3.1.6 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the CHASSIS and CONTROL BASE. (Refer to the procedure described in REMOVING THE CHASSIS)
  (2) Put the CHASSIS in upright position with the MAIN PWB's solderside faced to the right. The FBT must be positioned on top. (Viewed from the rear)
  (3) Put the CONTROL PWBs in an appropriate position, taking care not giving tension to the ribbon cables that connect to the MAIN PWB.

CAUTIONS:

- Use insulating materials, if necessary, to avoid possible electrical contacts between PWBs and expose terminals, etc.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.1.7 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

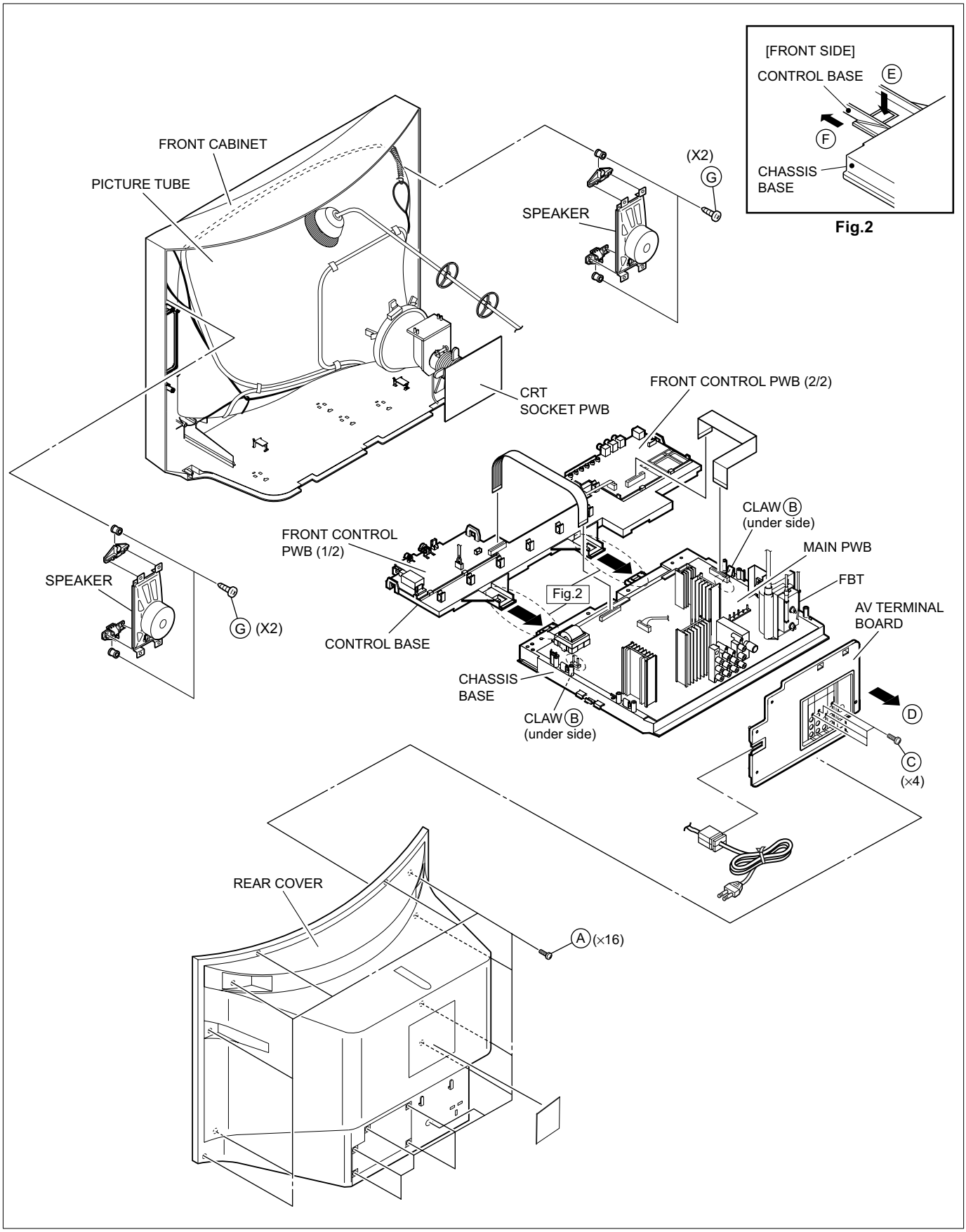

[FRONT SIDE]
CONTROL BASE
E
F
CHASSIS BASE
FRONT CABINET
PICTURE TUBE
(X2)
G
SPEAKER
CRT SOCKET PWB
FRONT CONTROL PWB (2/2)
CLAW B (under side)
FRONT CONTROL PWB (1/2)
MAIN PWB
FBT
Fig.2
AV TERMINAL BOARD
SPEAKER
G (X2)
CONTROL BASE
CHASSIS BASE
CLAW B (under side)
D
C (×4)
REAR COVER
A (×16)

Fig.2

Fig. 1

3.2 REPLACEMENT OF MEMORY IC

3.2.1 MEMORY IC

This TV uses the following memory IC.

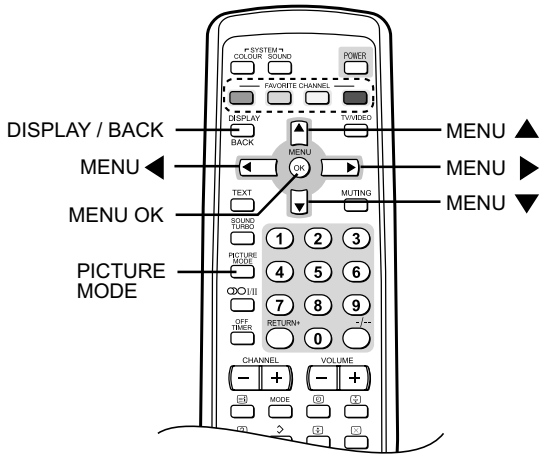
Memory IC: IC702 on MAIN PWB

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

3.2.2 PROCEDURE FOR REPLACING MEMORY IC

1. **Power off**
   Switch the power off and unplug the power cord from the wall outlet.
2. **Replacing the memory IC**
   Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.
3. **Power on**
   Plug the power cord into the wall outlet and switch the power on.
4. **Check and setting of SYSTEM CONSTANT SET:**
   (1) Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously. The SERVICE MENU screen will be displayed.(See Fig.1.)
   (2) In the SERVICE MENU, press the [DISPLAY] key and [PICTURE MODE] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)
   (3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table1.
   If the value is different, select the setting item with the MENU [▼]/[▲] key, and set the correct value with the MENU [◀]/[▶] key.
   (4) Press the [DISPLAY] key twice to return to the normal screen.
5. **Receive channel setting**
   Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).
6. **User setting**
   Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
   For setting, refer to the **OPERATING INSTRUCTIONS**.
7. **Setting of SERVICE MENU**
   Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".

NAME OF REMOTE CONTROL KEYS



SERVICE MENU

```
SERVICE MENU

1. IF              2. V/C
3. AUDIO           4. DEF
5. VSM W/B         6. S TATUS
7. PLUG & PLAY (OFF)

1-7 : SELECT       DISPLAY : EXIT

******* **** ***** *****
     **** **** *** ***
```

Fig. 1

SYSTEM CONSTANT-1

```
SYSTEM CONSTANT  SET 1

SYSTEM          : MULTI
COMB              YES
TILT              YES
SUPER BASS        NO
TEXT              NO
LANGUAGE          ERAPF

▼ ▲ : SEL  ◀ ▶ : OPE   DISP : EXIT
```

SYSTEM CONSTANT-2

```
SYSTEM CONSTANT  SET 2

SOUND             PB
BILINGUAL         NO
BLUE BACK MUTE    NO
COLOUR AUTO       YES
ECO SENSOR        YES

▼ ▲ : SEL  ◀ ▶ : OPE   DISP : EXIT
```

SYSTEM CONSTANT-3

```
SYSTEM CONSTANT  SET 3

SURROUND          YES
PICTURE BOOSTER   NO
COMPONENT         YES
PIP               NO
S INPUT           YES

▼ ▲ : SEL  ◀ ▶ : OPE   DISP : EXIT
```

Fig. 2

3.2.3 FACTORY SHIPMENT SETTING VALUE

■SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value			
		AV-29WX14/G	AV-29WX14/S	AV-29WX24/L	AV-2954W/E
SYSTEM	MULTI↔TRIPLE↔PAL↔THAI	MULTI	←	←	←
COMB	YES ↔ NO	YES	←	←	←
TILT	YES ↔ NO	YES	←	←	←
SUPER BASS	YES ↔ NO	NO	←	←	←
TEXT	SINGLE ↔ NO ↔ PAT	NO	←	SINGLE	NO
LANGUAGE	E/R/A/P/F	E/R/A/P/F	←	---	---
	E/R/C/M/I ↔ E/C	---	---	E/R/C/M/I	---
	E/R/U	---	---	---	E/R/U
SOUND	STEREO ↔ PB ↔ MONO	PB	←	←	STEREO
BILINGUAL	YES ↔ NO	NO	←	←	←
BLUE BACK MUTE	YES ↔ NO	NO	YES	NO	←
COLOUR AUTO	YES ↔ NO	YES	←	NO	←
ECO SENSOR	YES ↔ NO	YES	←	←	←
SURROUND	YES ↔ NO	YES	←	←	←
PICTURE BOOSTER	YES ↔ NO	NO	←	←	←
COMPONENT	YES ↔ NO	YES	←	←	←
PIP	YES ↔ NO	NO	←	←	←
S INPUT	YES ↔ NO	YES	←	←	←

Table 1

■ SETTING OF BASIC FUNCTIONS

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
COLOR SYSTEM	PAL
SOUND SYSTEM	B/G
PICTURE MODE(VSM)	BRIGHT
CINEMA SURROUND	OFF
OFF TIMER	OFF
STEREO MODE	STEREO[AV-2954W/E]
CHANNEL POSITION	PRESET 1

Table 2

■ SETTING OF MENU SCREEN

Setting item	Setting value
INPUT	TV
VNR	AUTO
COMPRESS (16:9)	OFF
PICTURE TILT	▼ ▲
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	VIDEO
AUTO PROGRAM	Refer to OPERATING INSTRUCTIONS
EDIT / MANUAL	Refer to OPERATING INSTRUCTIONS
LANGUAGE	ENG
TEXT LANGUAGE	GROUP-3[AV-2954W/E]
TINT	Centre
COLOUR	Centre
BRIGHT	Centre
CONT	Maximum
SHARP	Centre
BALANCE	Centre
SOUND MODE	DYNAMIC
SOUND TURBO	OFF
AI VOLUME	ON
FAVORITE CH RED	PR01
FAVORITE CH GREEN	PR02
FAVORITE CH YELLOW	PR03
FAVORITE CH BLUE	PR04
AI ECO SENSOR	OFF
AI ECO DISPLAY	ON

Table 3

■ SERVICE MENU SETTING ITEMS

Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT
2. V/C	1. SCREEN 2. CUTOFF(B/G) 3. WDR(R/G/B) 4. BRIGHT(TV/VDO 1/2/3) 5. CONT(TV/VDO 1/2/3/TV 16:9/VDO 16:9) 6. COLOUR(TV/VDO 1/2/3/DVD) 7. TINT(TV/VDO 1/2/3) 8. SHARP 9. Y DELAY [Do not adjust] 10. TINT DVD 11. AMP T. SHARP
3. AUDIO **[Do not adjust]**	1. DCXO ADJ 2. NICAM lower ERRLIM 3. NICAM upper ERRLIM 4. A2 ID THR 5. MENU EQUALIZER
4. DEF	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. TRAPEZ 7. EW-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V-LIN 14. V-ZOOM 15. V-SCROLL
5. VSM W/B **(BRIGHT/STANDARD/SOFT)** **(COOL/WARM/NORMAL)**	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 1. R DRIVE 2. G DRIVE 3. B DRIVE
6. STATUS **[Display only]**	
7. PLUG & PLAY(ON) **[Display only]**	

Table 4

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

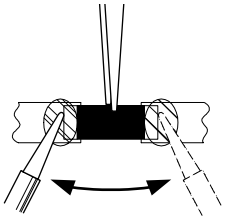
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

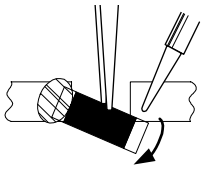
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

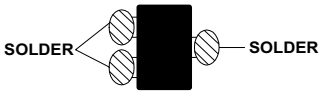


(2) Shift with tweezers and remove the chip part.

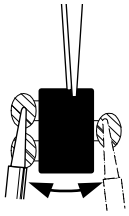


[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

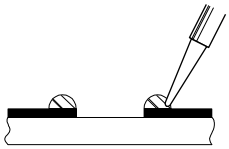


Note :
After removing the part, remove remaining solder from the pattern.

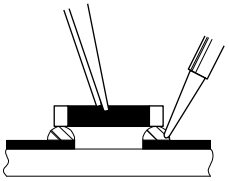
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

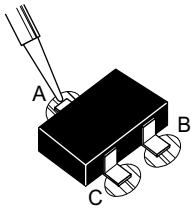


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

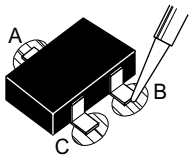


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.**
(2) **Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values used for setting the screen to its optimum condition may differ from the initial settings.**
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts, which are not specified in the list for this variable resistors, transformers, trimmer capacitors, etc.

4.2 PRESETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

■ User mode setting position

Setting item	Setting value
PICTURE MODE (VSM)	BRIGHT
TINT, COLOUR, BRIGHT,SHARP	Centre
CONT	Maximum
VNR	OFF
AI ECO SENSOR	OFF
BALANCE	Centre
SOUND TURBO	OFF
CINEMA SURROUND	OFF
COMPRESS	4:3

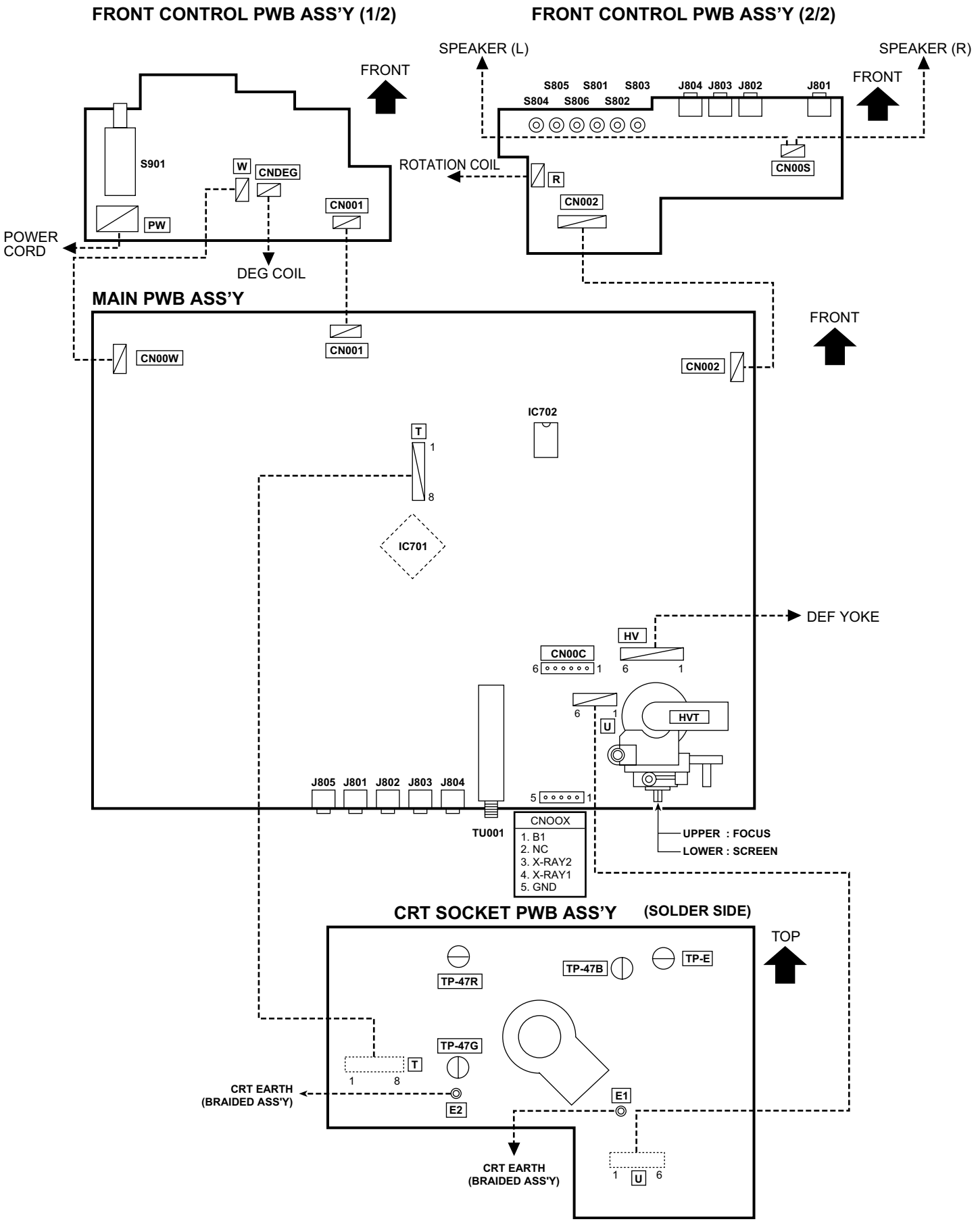
4.3 MEASURING INSTRUMENT AND FIXTURES

(1) DC voltmeter (or Digital voltmeter)
(2) Oscilloscope
(3) Signal generator (Pattern generator) [PAL/SECAM/NTSC]
(4) Remote control unit

4.4 ADJUSTMENT ITEMS

- ■ B1 VOLTAGE
- ■ FOCUS ADJUSTMENT
- ■ IF CIRCUIT ADJUSTMENTS
  - • IF VCO adjustment
  - • DELAY POINT (AGC TAKE-OVER) adjustment
- ■ VIDEO CIRCUIT ADJUSTMENTS
  - • WHITE BALANCE (Low light) adjustment
  - • WHITE BALANCE (High light) adjustment
  - • SUB BRIGHT adjustment
  - • SUB CONTRAST adjustment
  - • SUB COLOUR 1 adjustment
  - • SUB COLOUR 2 adjustment
  - • SUB TINT 1 adjustment
  - • SUB TINT 2 adjustment
- ■ AUDIO SETTING
- ■ DEFLECTION CIRCUIT ADJUSTMENTS
  - • V.SLOPE adjustment
  - • V.POSITION adjustment
  - • V.HEIGHT adjustment
  - • H.POSITION adjustment
  - • H. WIDTH adjustment
  - • SIDE PIN adjustment
  - • TRAPEZIUM adjustment
  - • V.S-CURVE adjustment
  - • CORNER adjustment
  - • H. PARALLEL adjustment
  - • H.BOW adjustment
- ■ VSM PRESET SETTING
- ■ PURITY AND CONVERGENCE ADJUSTMENTS
  - • PURITY adjustment
  - • STATIC CONVERGENCE adjustment
  - • DYNAMIC CONVERGENCE adjustment

4.5 ADJUSTMENT LOCATIONS



4.6 BASIC OPERATION IN SERVICE MENU

Operate the SERVICE MENU with the remote control unit.

4.6.1 SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings:

1. IF	For entering/adjusting the setting values (adjustment values) of the IF circuit.
2. V/C	For entering/adjusting the setting values (adjustment values) of the VIDEO circuit.
3. AUDIO	For entering/adjusting the setting values (adjustment values) of the AUDIO circuit.
4. DEF	For entering/adjusting the setting values (adjustment values) of the DEFLECTION circuit.
5. VSM W/B	For setting the values of STANDARD, SOFT, BRIGHT and COOL, NORMAL, WARM.
6. STATUS	This is not used for service.
7. PLUG & PLAY (ON)	This is not used for service.

4.6.2 BASIC OPERATION IN SERVICE MENU

1. HOW TO ENTER SERVICE MENU

Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed. (See Fig. 1 on the next page.)

2. SELECTION OF SUB MENU SCREEN

Press one of the keys 1 to 6 on the remote control unit, and select the SUB MENU SCREEN from the SERVICE MENU. (See Fig.1 on the next page.)

SERVICE MENU → SUB MENU

1. IF
2. V/C
3. AUDIO
4. DEF
5. VSM W/B
6. STATUS
7. PLUG & PLAY (ON)

3. METHOD OF SETTING

NOTES:

- Once the setting values are set, they are memorized automatically.
- It must not be adjusted without inputting a signal.

(1) 1. IF

[1.VCO] : Under normal conditions, no adjustment is required.

(a) [1] key	Select **1. IF**.
(b) [1] key	Select **1. VCO**.
(c) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

[2.DELAY POINT]

(a) [1] key	Select **1. IF**.
(b) [2] key	Select **2. DELAY POINT**.
(c) MENU [◀]/[▶] key	Adjust the setting value.
(d) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

(2) 2. V/C, 3. AUDIO and 4. DEF

(a) [2] ~[4] keys	Select one from **2. V/C** and **3. AUDIO**, **4. DEF**.
(b) MENU [▼]/[▲] key	Select setting items.
(c) MENU [◀]/[▶] key	Adjust the setting values of the setting items. Use the number keys on the remote control unit for setting the WHITE BALANCE. For the setting, refer to each item concerned.
(d) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(3) 5. VSM W/B

(a) [5] key	Select **5. VSM W/B**.
(b) MENU [OK] key	Select preset items.
(c) MENU [▼]/[▲] key	Adjust setting items.
(d) MENU [◀]/[▶] key	Adjust the setting values of the setting items.
(e) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(4) 6. STATUS

This is for display only.

(5) 7. PLUG & PLAY (ON)

This is not used for service.

4. Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU by pressing the [DISPLAY] key, then again press the [DISPLAY] key to return to the normal screen.

4.6.3 SERVICE MENU FLOW CHART

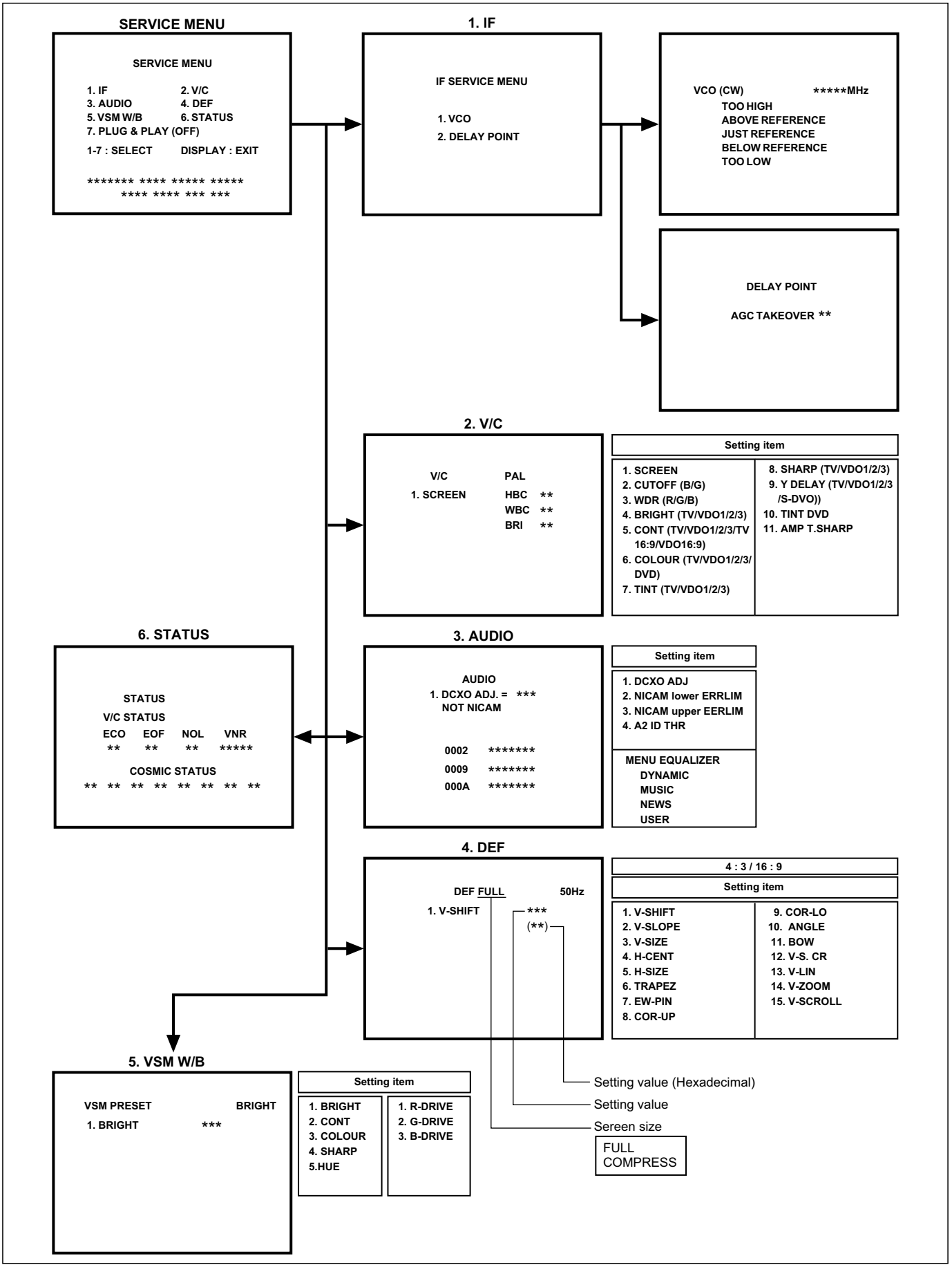


Fig. 1

4.7 ADJUSTMENT PROCEDURE

4.7.1 B1 VOLTAGE

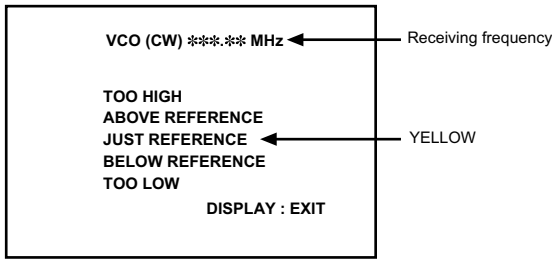
Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE check	Signal generator DC voltmeter	B1 (pin 1) GND (pin 5) [CN00X connector in MAIN PWB]		(1) Receive a black and white signal. (2) Connect a DC voltmeter between B1 and GND (between pins 1 and 5 of the connector CN00S). (3) Make sure that the voltage is **DC134.5V ± 2V**.

4.7.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	**Notes:** • Set PICTURE MODE (VSM) to "BRIGHT". **[AV-29WX14/G, AV-29WX14/S, AV-29WX24/L only]** • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is affected by the FOCUS adjustment.) If any aeviation in CONVERGENCE is found, PURITY must be adjusted to restore the convergence. (1) Receive a crosshatch signal. (2) Adjust the **FOCUS VR** so that the vertical and horizontal lines will be clear and in fine detail on the screen. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.7.3 IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO check	Remote control unit		[1. IF] 1. VCO (CW)	**Note:** • Under normal conditions, no adjustment is required. (1) Receive a broadcast signal. (2) Select **1. IF** from the SERVICE MENU. (3) Select **1. VCO**. (4) Check the characters colour of the **JUST REFERENCE** displayed to **yellow**. (5) Press the [DISPLAY] key three times to return to normal screen.



Item	Measuring instrument	Test point	Adjustment part	Description
DELAY POINT (AGC TAKE-OVER) adjustment	Remote control unit		[1. IF] 2. DELAY POINT	(1) Receive a black and white broadcast signal (colour off). (2) Select **1. IF** from the SERVICE MENU. (3) Select **2. DELAY POINT**. (4) Adjust in order to eliminate any noise or beat from the image. Any increase above the initial value produces the noise and any decrease below it produces the beat. (5) Press the [DISPLAY] key three times to return to the normal screen. (6) Turn to other channels and make sure that there are no irregularities.

Adjustment item	Initial setting value			
	NTSC 3.58		OTHERS	
	VHF	UHF	VHF	UHF
2. DELAY POINT (AGC TAKE-OVER)	30	30	30	30

4.7.4 VIDEO CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Do not change the initial setting values of the setting (adjustment) items not listed in “ADJUSTMENT PROCEDURE”.
- The initial setting values in parenthesis ( ) are fixed offset values, needing no further adjustment.

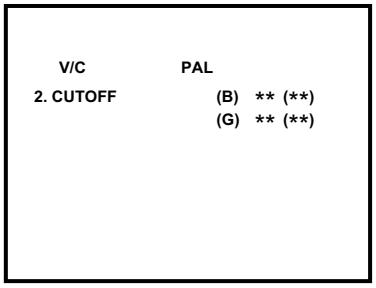
[AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]

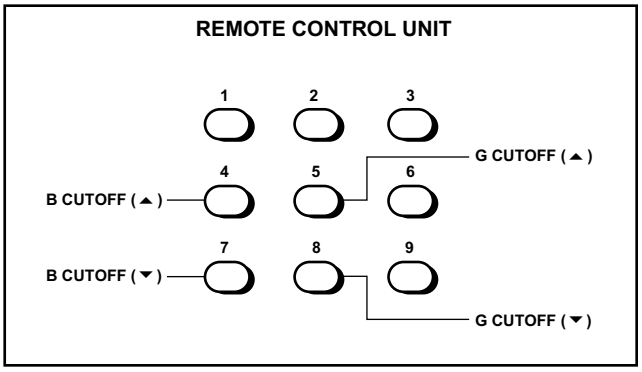
Adjustment item		Variable range	Initial setting value					
			PAL	SECAM	NTSC3.58	NTSC4.43	COMPONENT(V-2)	
							525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	11	(-3)	(-3)
	G	0 ~ 63(-32 ~ +31)	7	7	7	7	(-5)	(-5)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63(-32 ~ +31)	39	39	39	39	---	---
	VIDEO1(COMPOSITE/S)	(-32 ~ +31)	(-1)	(-1)	(-1)	(-1)	---	---
	VIDEO2(COMPONENT)	(-32 ~ +31)	(0)	(0)	(0)	(0)	(0)	(0)
	VIDEO3(COMPOSITE)	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	32	---	---
	VIDEO	(-32 ~ +31)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
	RF 16:9	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
	VIDEO 16:9	(-32 ~ +31)	---	---	---	---	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	42	32	37	(-3)	---	---
	VIDEO	(-32 ~ +31)	(-1)	(0)	(-3)	(0)	(+4)	(-5)
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	(-4)	---	---
	VIDEO	(-32 ~ +31)	---	---	(+4)	(+11)	---	---
8. SHARP	RF	0 ~ 63	22	22	22	22	---	---
	VIDEO	0 ~ 63	35	35	35	35	15	15
9. Y DELAY	RF	0 ~ 15	9	7	12	7	---	---
	VIDEO	0 ~ 15	7	7	7	7	---	---
	S-VIDEO	0 ~ 15	9	10	11	11	---	---
10. TINT DVD	RF, VIDEO, S-VIDEO	0 ~ 63	34	32	32	32	---	---
	COMPONENT	(-32 ~ +31)	---	---	---	---	(-2)	(-2)
11. AMP T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0	0

[AV-2954W/E]

Adjustment item		Variable range	Initial setting value					
			PAL	SECAM	NTSC3.58	NTSC4.43	COMPONENT(V-2)	
							525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	11	(-3)	(-3)
	G	0 ~ 63(-32 ~ +31)	7	7	7	7	(-5)	(-5)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63(-32 ~ +31)	39	39	39	39	---	---
	VIDEO1(COMPOSITE/S)	(-32 ~ +31)	(-1)	(-1)	(-1)	(-1)	---	---
	VIDEO2(COMPONENT)	(-32 ~ +31)	(0)	(0)	(0)	(0)	(0)	(0)
	VIDEO3(COMPOSITE)	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	32	---	---
	VIDEO	(-32 ~ +31)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
	RF 16:9	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
	VIDEO 16:9	(-32 ~ +31)	---	---	---	---	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	42	32	37	(-3)	---	---
	VIDEO	(-32 ~ +31)	(-1)	(0)	(-3)	(+3)	(+6)	(-4)
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	(-4)	---	---
	VIDEO	(-32 ~ +31)	---	---	(+4)	(+2)	---	---
8. SHARP	RF	0 ~ 63	22	22	22	22	---	---
	VIDEO	0 ~ 63	35	35	35	35	15	15
9. Y DELAY	RF	0 ~ 15	9	7	12	7	---	---
	VIDEO	0 ~ 15	7	7	7	7	---	---
	S-VIDEO	0 ~ 15	9	10	11	11	---	---
10. TINT DVD	RF, VIDEO, S-VIDEO	0 ~ 63	29	32	32	32	---	---
	COMPONENT	(-32 ~ +31)	---	---	---	---	(-2)	(-2)
11. AMP T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0	0

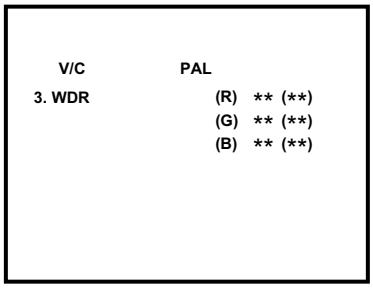
Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low light) adjustment	Signal generator Remote control unit		[2. V/C] 2.CUTOFF (B) 2.CUTOFF (G) SCREEN VR [In HVT]	**Note:** • Set PICTURE MODE (VSM) to “BRIGHT”. (1) Receive a PAL black and white signal (colour off). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **2. CUTOFF (B)** and **(G)**. (4) Set each value to initial setting value with the **[4]** / **[7]** keys and **[5]** / **[8]** keys. (5) Turn the **SCREEN VR** fully counterclockwise, then slowly turn it clockwise to where a red, blue or green colour is faintly visible. (6) Use the **[4]** / **[7]** and **[5]** / **[8]** keys to adjust so that the other 2 colours appear white. (7) Turn the **SCREEN VR** to where the single horizontal line glows faintly. (8) Press the **[2]** key to return to **2. CUTOFF** screen. (9) Press the [DISPLAY] key twice to return to the normal screen.

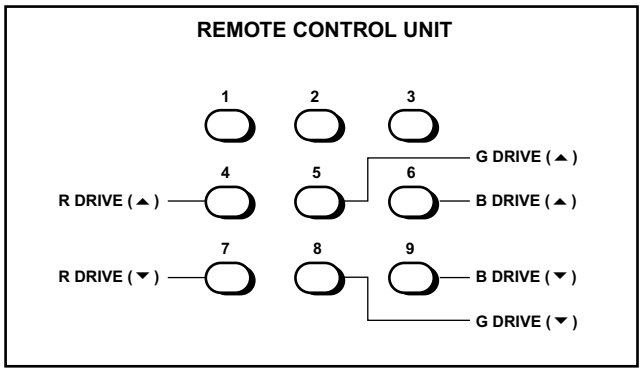




Adjustment Item		Variable range	Initial setting value
2. CUTOFF	B	0 ~ 63	11
	G	0 ~ 63	7

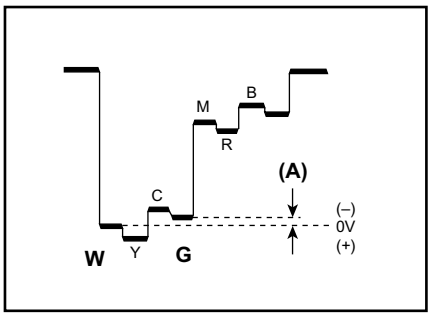
WHITE BALANCE (High light) adjustment	Signal generator Remote control unit		[2. V/C] 3.WDR (R) 3.WDR (G) 3.WDR (B)	**Notes:** • Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. (1) Receive a PAL black and white signal (colour off). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **3. WDR (R)**, **(G)** and **(B)**. (4) Set each value to initial setting value with the **[4]** to **[9]** keys. (5) Use the **[4]** to **[9]** keys to produce a white screen. (6) Press the [DISPLAY] key twice to return to the normal screen.



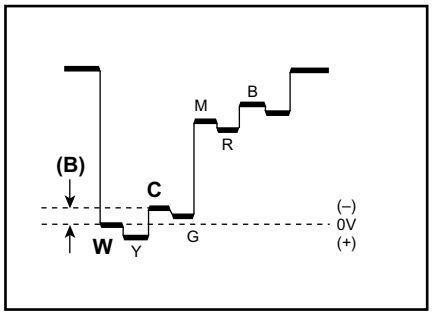


Adjustment Item		Variable range	Initial setting value
3. WDR	R	0 ~ 63	32
	G	0 ~ 63	32
	B	0 ~ 63	45

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT adjustment	Remote control unit		[2. V/C] 4. BRIGHT	**Notes:** • Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) and WHITE BALANCE (High light) adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. (1) Receive a broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **4. BRIGHT**. (4) Set the initial setting value. (5) If the brightness is not best with the initial setting value, make fine adjustment until you get the best brightness. (6) Press the [DISPLAY] key twice to return to the normal screen.
SUB CONTRAST adjustment	Remote control unit		[2. V/C] 5. CONT	**Notes:** • Proceed to the following adjustment after having completed the SUB BRIGHT adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. (1) Receive a broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **5. CONT**. (4) Set the initial setting value. (5) If the contrast is not best with the initial setting value, make fine adjustment until you get the best contrast. (6) Press the [DISPLAY] key twice to return to the normal screen.
SUB COLOUR 1 adjustment	Remote control unit		[2. V/C] 6. COLOUR	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. **- PAL COLOUR -** (1) Receive a PAL broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value for PAL COLOUR. (5) If the colour is not best with the initial setting value, adjust until you get the best colour. (6) Press the [DISPLAY] key twice to return to the normal screen. **- SECAM COLOUR -** (1) Receive a SECAM broadcast. (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) Adjust SECAM COLOUR in the same way as for “PAL COLOUR”. **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58MHz broadcast. (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Adjust NTSC 3.58 COLOUR in the same way as for “PAL COLOUR”. **- NTSC 4.43 COLOUR -** When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E [CRT SOCKET PWB]	[2. V/C] 6. COLOUR	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. **- PAL COLOUR -** (1) Receive a PAL colour bar signal (full field colour bar 75% white). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value of PAL COLOUR. (5) Connect the oscilloscope between TP-47G and TP-E. (6) Adjust PAL COLOUR to set the value **(A)** in the figure to **+18V [AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]** or **+16V [AV-2954W/E]**. **- SECAM COLOUR -** (1) Receive a SECAM colour bar signal (colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) Set the initial setting value of SECAM COLOUR. (4) Adjust SECAM COLOUR to set the value **(A)** in the figure to **+7V [AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]** or **+2V [AV-2954W/E]**. **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Set the initial setting value of NTSC 3.58 COLOUR. (4) Adjust NTSC 3.58 COLOUR to set the value **(A)** in the figure to **+8V [AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]** or **+15V [AV-2954W/E]**. **- NTSC 4.43 COLOUR -** When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.
				
SUB TINT 1 adjustment	Signal generator Remote control unit		[2. V/C] 7. TINT	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. (7) Press the [DISPLAY] key twice to return to the normal screen. **- NTSC 4.43 TINT -** When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E [CRT SOCKET PWB]	[2. V/C] 7. TINT	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to “BRIGHT”. **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) Connect the oscilloscope between TP-47G and TP-E. (7) Adjust NTSC 3.58 TINT to set the value **(B)** in the figure to **+9V [AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]** or **+13V [AV-2954W/E]**. (8) Press the [DISPLAY] key twice to return to the normal screen. **- NTSC 4.43 TINT -** When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.



4.7.5 AUDIO SETTING

This submenu is for display only, no adjustment is required.

Function	Item	Setting value				
AUDIO	1. DC XO ADJ	FOH				
	2. NICAM LOWER ERR LIM	6FH				
	3. NICAM UPPER ERR LIM	BOH				
	4. A2 ID THR	00H				
Function	**Item**	**100Hz**	**300Hz**	**1kHz**	**3kHz**	**8kHz**
MENU EQUALIZER	DYNAMIC	+4	+3	-10	+3	+4
	MUSIC	+7	+2	+5	+2	+7
	NEWS	-6	+1	+6	+1	-6
	USER	0	0	0	0	0

4.7.6 DEFLECTION CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- When performing deflection circuit adjustment, adjusts PAL signal (fv: 50 Hz) in 4:3 mode and 16:9 mode respectively, and adjust the NTSC signal (fv: 60 Hz) similarly.

Note:
Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

■4. DEF

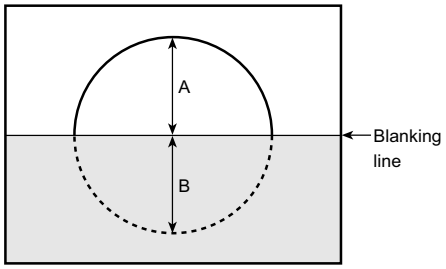
Adjustment item	Variable range		Initial setting value			
	4:3 50Hz	Others	4:3		COMPRESS (16:9)	
			50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	+15*	0*	-4*	-2*
4. H-CENT	0 ~ 63	-32 ~ +31	+35*	0*	0*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	+45*	0*	0*	0*
6. TRAPEZ	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
7. EW-PIN	0 ~ 63	-32 ~ +31	-12*	0*	0*	0*
8. COR-UP	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
9. COR-LO	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
10. ANGLE	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
11. BOW	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	0*	0*	0*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	(+25)	(0)	-23*	+3*
15. V-SCROLL	0 ~ 63	-32 ~ +31	(+32)	(0)	(0)	(0)

NOTE: The value with an asterisk * is variable for adjustment. The value in parenthesis ( ) are fixed values.

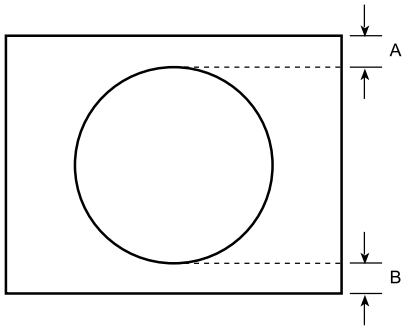
■COMPRESS : OFF (4:3)

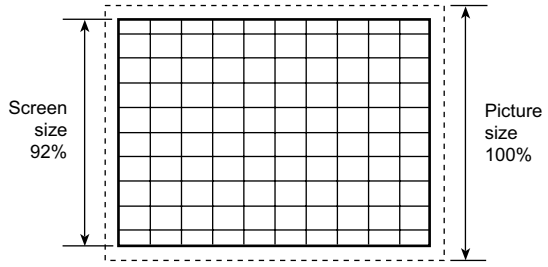
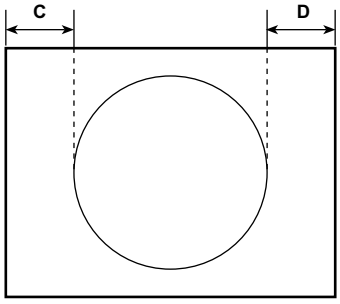
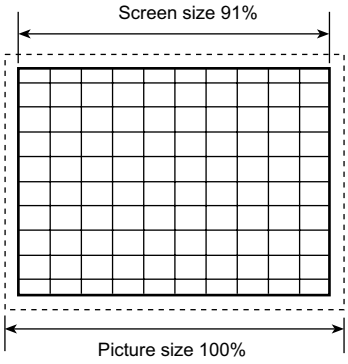
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V. SLOPE adjustment</td><td>Signal generator

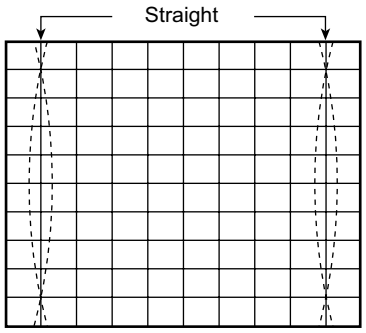
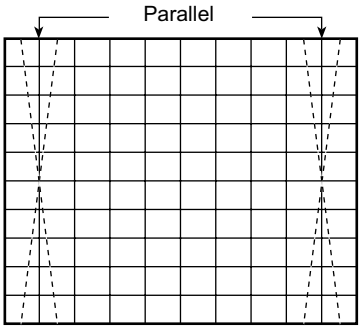
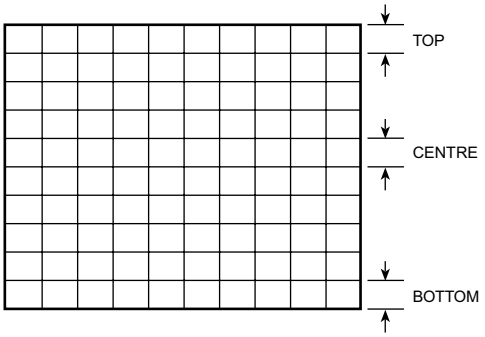
Remote control unit</td><td></td><td>[4. DEF]
2. V-SLOPE</td><td rowspan="2">- PAL V. SLOPE -
(1) Receive a PAL circle pattern signal of vertical frequency 50Hz.
(2) Select 4. DEF from the SERVICE MENU.
(3) Select 2. V-SLOPE.
(4) Set the initial setting value of 2. V-SLOPE.
(5) Adjust 2. V-SLOPE to make “A = B”.
(6) Press the [DISPLAY] key to refurn to SERVICE MENU screen.

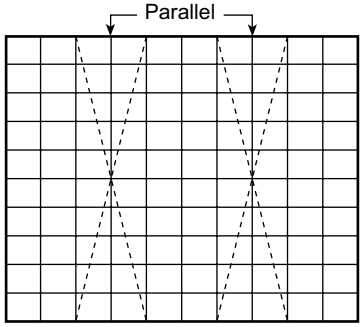
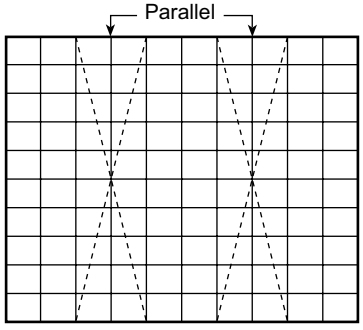
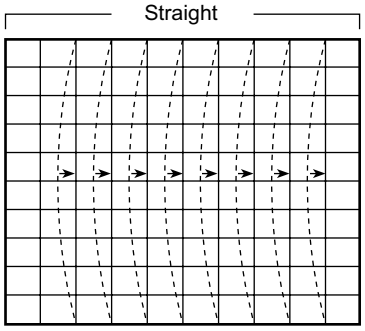
- NTSC V. SLOPE -
(1) Receive a NTSC circle pattern signal of vertical frequency 60Hz.
(2) Make similar adjustment of NTSC V- SLOPE in the same way as for “PAL V-SLOPE”.</td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>V. POSITION adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[4. DEF]
1. V-SHIFT</td><td rowspan="2">- PAL V. POSITION -
(1) Receive a PAL circle pattern signal of vertical frequency 50Hz.
(2) Select 1. V-SHIFT.
(3) Set the initial setting value of 1. V-SHIFT.
(4) Adjust 1. V-SHIFT to make “A = B”.

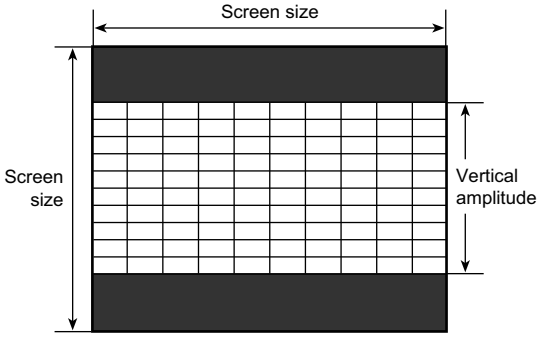
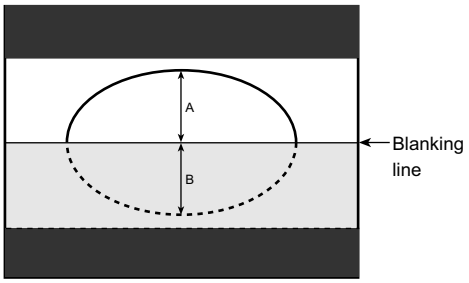
- NTSC V. POSITION -
(1) Receive a NTSC circle pattern signal of vertical frequency 60Hz.
(2) Make similar adjustment of NTSC V. POSITION in the same way as for “PAL V. POSITION”.</td></tr>
<tr><td colspan="4"> 
</td></tr>
</table>

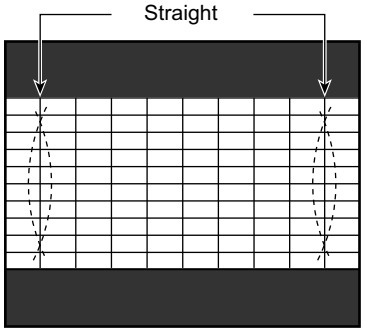
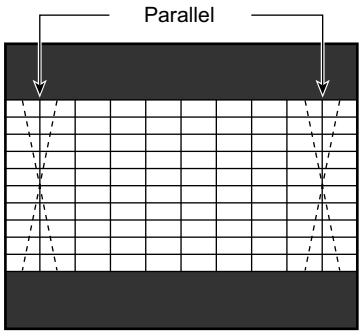
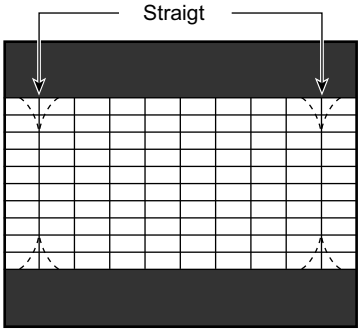
Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[4. DEF] 3. V-SIZE 14. V-ZOOM	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal. (2) Select **3. V-SIZE**. (3) Set the initial setting value of **3. V-SIZE**. (4) Select **14. V-ZOOM**. (5) Set the initial setting value of **14. V-ZOOM**. (6) Adjust **14. V-ZOOM** to make the vertical screen size to 92% of the picture size. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	**- PAL H. POSITION -** (1) Receive a PAL circle pattern signal. (2) Select **4. H-CENT**. (3) Set the initial setting value of **4. H-CENT**. (4) Adjust **4. H-CENT** to make “**C = D**”. **- NTSC H. POSITION -** (1) Receive a NTSC circle pattern signal. (2) Make similar adjustment of NTSC H. POSITION in the same way as for “PAL H. POSITION”.
				
H. WIDTH adjustment	Signal generator Remote control unit		[4.DEF] 5. H-SIZE	**- PAL H. WIDTH -** (1) Receive a PAL crosshatch signal. (2) Select **5. H-SiZE**. (3) Set the initial setting value of **5. H-SIZE**. (4) Adjust **5. H-SIZE** to make the horizontal screen size to 91% of the picture size. **- NTSC H. WIDTH -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. WIDTH in the same way as for “PAL H. WIDTH”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[4. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Receive a PAL crosshatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[4.DEF] 6. TRAPEZ	**- PAL TRAPEZIUM -** (1) Receive a PAL crosshatch signal. (2) Select **6. TRAPEZ**. (3) Set the initial setting value of **6. TRAPEZ**. (4) Adjust **6. TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
				
V. LINEARITY adjustment	Signal generator Remote control unit		[4. DEF] 12. V-S.CR 13. V-LIN	**- PAL V. LINEARITY -** (1) Receive a PAL crosshatch signal. (2) Select **12. V-S.CR**. (3) Set the initial setting value of **12. V-S.CR**. (4) Select **13. V-LIN**. (5) Set the initial setting value of **13. V-LIN**. (6) Adjust **12. V-S.CR** and **13. V-LIN** so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform. **- NTSC V. LINEARITY -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC V-S. CR in the same way as for “PAL V-S. CR”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
CORNER PIN adjustment	Signal generator Remote control unit		[4. DEF] 8. COR-UP 9. COR-LO	**- PAL CORNER PIN -** (1) Receive a PAL crosshatch signal. (2) Select **8. COR-UP**. (3) Set the initial setting value of **8. COR-UP**. (4) Select **9. COR-LO**. (5) Set the initial setting value of **9. COR-LO**. (6) Adjust **8. COR-UP** and **9. COR-LO** so that the vertical lines at the four corners on the screen are straight. **- NTSC CORNER PIN** - (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”.
				
H. PARALLEL adjustment	Signal generator Remote control unit		[4.DEF] 10. ANGLE	**- PAL H. PARALLEL -** (1) Receive a PAL crosshatch signal. (2) Select **10. ANGLE**. (3) Set the initial setting value of **10. ANGLE**. (4) Adjust **10. ANGLE** to optimize the trapezium distortion at the centre of the screen. **- NTSC H. PARALLEL -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. PARALLEL in the same way as for “PAL H. PARALLEL”.
				
H. BOW adjustment	Signal generator Remote control unit		[4.DEF] 11. BOW	**- PAL H. BOW -** (1) Receive a PAL crosshatch signal. (2) Select **11. BOW**. (3) Set the initial setting value of **11. BOW**. (4) Adjust **11. BOW** to optimize the horizontal arc distortion. **- NTSC H. BOW -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. BOW in the same way as for “PAL H. BOW”. (3) Press the [DISPLAY] key twice to return to the normal screen.
				

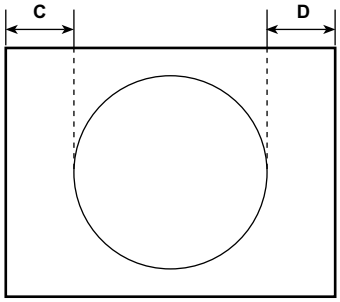
■ **COMPRESS : ON (16:9)**

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[4.DEF] 14. V. ZOOM 3. V-SIZE	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal of vertical frequency 50Hz. (2) Press the [MENU] key and select **PICTURE**. (3) Select **PICTURE FEATURES**. (4) Select **COMPRESS (16 : 9)** and set COMPRESS to ON. (5) Select **4. DEF** from the SERVICE MENU. (6) Set the initial setting value of **14. V. ZOOM**. (7) Select **3. V-SIZE**. (8) Set the initial setting value of **3. V-SIZE**. (9) Adjust **3. V-SIZE** to set the vertical amplitude of the image to 305mm. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
V. SLOPE adjustment	Signal generator Remote control unit		[4.DEF] 2. V-SLOPE	**- PAL V. SLOPE -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **4. DEF** from the SERVICE MENU. (3) Select **2. V-SLOPE**. (4) Set the initial setting value of **2. V-SLOPE**. (5) Adjust **2. V-SLOPE** to make “**A = B**”. (6) Press the [DISPLAY] key to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. SLOPE in the same way as for “PAL V. SLOPE”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[4. DEF] 7. EW-PIN	**- PAL SIDE PIN -** (1) Receive a PAL crosshatch signal. (2) Select **7. EW-PIN**. (3) Set the initial setting value of **7. EW-PIN**. (4) Adjust **7. EW-PIN** so that the first vertical lines at the left and right edges on the screen are straight. **- NTSC SIDE PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[4. DEF] 6. TRAPEZ	**- PAL TRAPEZIUM PIN -** (1) Receive a PAL crosshatch signal. (2) Select **6. TRAPEZ**. (3) Set the initial setting value of **6. TRAPEZ**. (4) Adjust **6. TRAPEZ** so that the vertical lines at the left and right edges on the screen are in parallel. **- NTSC TRAPEZIUM PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
				
CORNER PIN adjustment	Signal generator Remote control unit		[4. DEF] 8. COR-UP 9. CO-LO	**- PAL CORNER PIN -** (1) Receive a PAL crosshatch signal. (2) Select **8. COR-UP**. (3) Set the initial setting value of **8. COR-UP**. (4) Select **9. COR-LO**. (5) Set the initial setting value of **9. COR-LO**. (6) Adjust **8. COR-UP** and **9. COR-LO** so that the vertical lines at the four corners on the screen are straight. **- NTSC CORNER PIN -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”. (3) Press the [DISPLAY] key twice to return to the normal screen.
				

■ **VIDEO - 2 SET : COMPONENT**

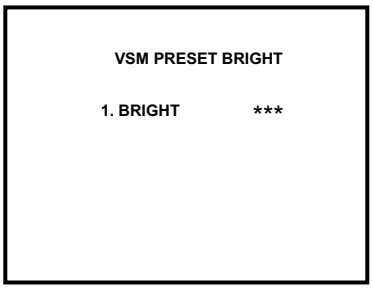
Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	(1) Receive a PAL circle pattern signal to VIDEO-2 component terminal. (2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. (3) Select **4. DEF** from the SERVICE MENU. (4) Select **4. H-CENT**. (5) Set the initial setting value of **4. H-CENT**. (6) Adjust **4. H-CENT** to make "**C=D**". (7) Press the [DISPLAY] key twice to return to the normal screen.



4.7.7 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET setting	Remote control unit		[5. VSM W/B] 1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 1. R-DRIVE 2. G-DRIVE 3. B-DRIVE	(1) Select **5. VSM W/B** from the SERVICE MENU. (2) Select BRIGHT with the MENU [OK] key. (3) Set the value of **1. BRIGHT ~ 5. HUE** to the values shown in the table. (4) Respectively select the VSM PRESET mode for SOFT and STANDARD. (5) Select COOL with the MENU [OK] key. (6) Set the values of **1. R-DRIVE ~ 3. B-DRIVE** to the value shown in the table. (7) Select the W/B preset for WARM and NORMAL, respectively. (8) Press the [DISPLAY] key twice to return to the normal screen.

SUB MENU 5. VSM W/B



[Setting Values for SUB 5. VSM W/B]

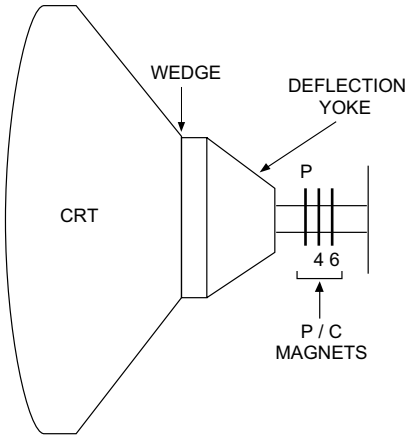
VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. BRIGHT	0	0	+2
2. CONT	+15	0	-3
3. COLOUR	0	0	0
4. SHARP	0	0	-10
5. HUE	0	0	0
W/B preset / Setting item	**COOL**	**WARM**	**NOMAL**
1. R-DRIVE	0	+10	+2
2. G-DRIVE	0	-4	0
3. B-DRIVE	0	-12	-10

4.7.8 PURITY AND CONVERGENCE [AV-29WX14/G, AV-29WX14/S, AV-29WX24/L]

■ PURITY ADJUSTMENT

Note:
The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is affected by the FOCUS adjustment.)
If CONVERGENCE is found deviated after the FOCUS adjustment, the PURITY adjustment should be checked and reset, if required.

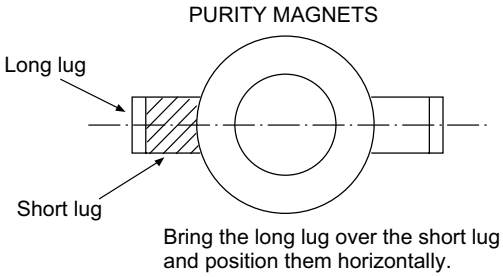
(1) Demagnetize the CRT with the demagnetizer.
(2) Loosen the retainer screw of the deflection yoke.
(3) Remove the wedges.
(4) Input a green raster signal from the signal generator, and turn the screen to green raster.
(5) Move the deflection yoke backward.
(6) Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig. 2)
(7) Adjust the gap between two lugs so that the GREEN RASTER will come into the centre of the screen. (Fig. 3)
(8) Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
(9) Insert the wedge to the top side of the deflection yoke so that it will not move.
(10) Input a crosshatch signal.
(11) Verify that the screen is horizontal.
(12) Input red and blue raster signals, and make sure that the purity is properly adjusted.



• P/C MAGNETS

P : PURITY MAGNET
4 : 4 POLES (convergence magnets)
6 : 6 POLES (convergence magnets)

Fig. 1



Bring the long lug over the short lug and position them horizontally.

Fig. 2

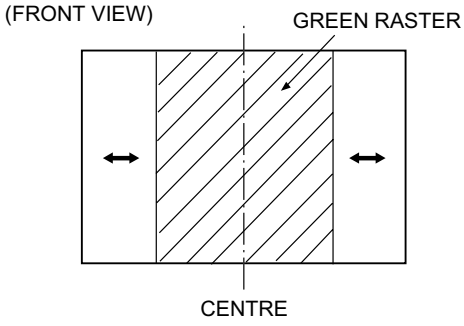


Fig. 3

■ STATIC CONVERGENCE ADJUSTMENT

(1) Input a crosshatch signal.
(2) Using 4-pole convergence magnets, overlap the red and blue lines in the centre of the screen (Fig. 4) and turn them to magenta (red/blue).
(3) Using 6-pole convergence magnets, overlap the magenta(red/blue) and green lines in the centre of the screen and turn them to white.
(4) Repeat (2) and (3) above, and make the best convergence.

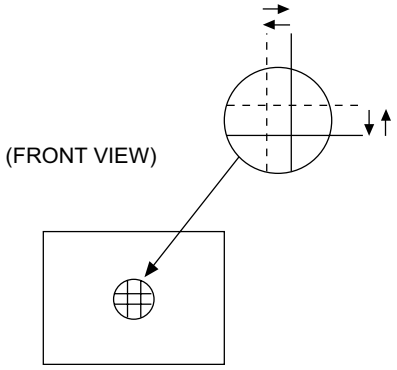


Fig. 4

■ DYNAMIC CONVERGENCE ADJUSTMENT

(1) Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 5)
(2) Move the deflection yoke from the left to the right and overlap the lines in the periphery. (Fig. 6)
(3) Repeat (1) and (2) above, and make the best convergence.
(4) Adjust XV by XV coil. (Fig.7)

NOTES:

- After the adjustment, fix the wedge at the original position.
- Fasten the retainer screw of the deflection yoke.
- Fix the P/C magnets with glue.

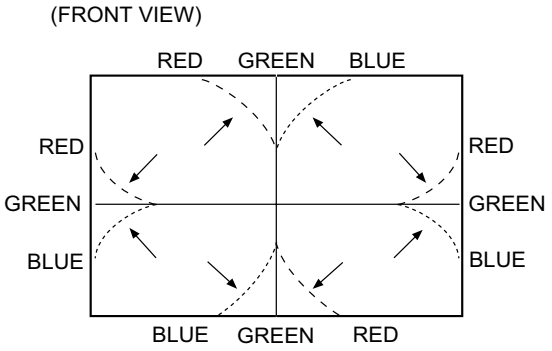


Fig. 5

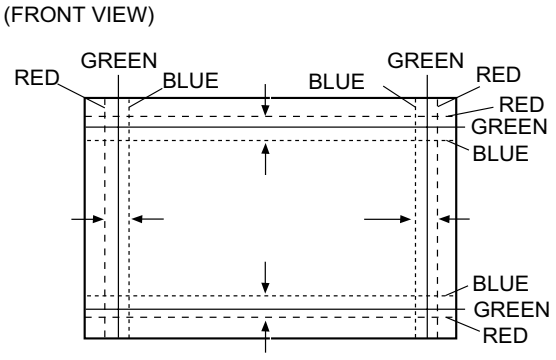


Fig. 6

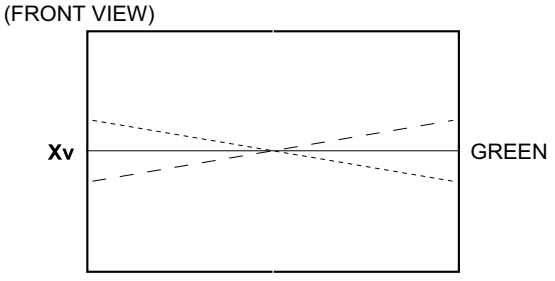


Fig. 7

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

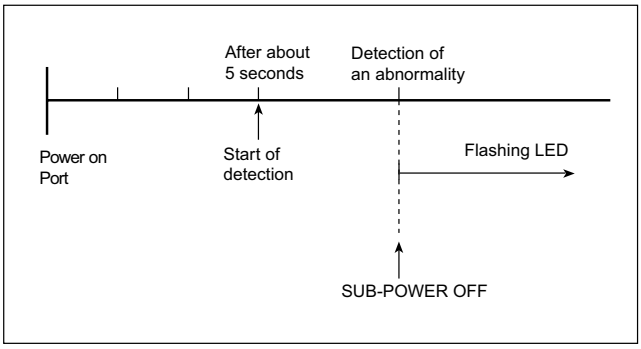
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flashes to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
B1 over-current protection	An over-current on the low B1 line is detected.	The main microcomputer detects the possible abnormality at 24-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality.	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is disconnected and connected again.
CRT neck broken protection	Operation of CRT neck protection circuit		

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power was turned on, the SUB POWER is turned off immediately and the POWER LED flashes.



[INDICATION BY THE POWER LED]

Item	LED flashing intervals
B1 over-current protection / CRT neck broken portection	0.3 seconds

JVC

Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No. YA104)

Printed in Japan
WPC

JVC

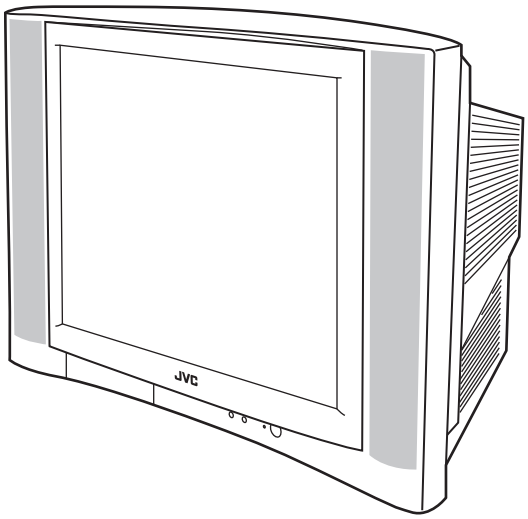
SCHEMATIC DIAGRAMS

FLAT COLOUR TELEVISION

AV-29WX14/G
AV-29WX14/S
AV-29WX24/L
AV-2954W/E

CD-ROM No. SML200407

BASIC CHASSIS
CW



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No.YA104
2004/7

AV-29WX14/G, AV-29WX14/S, AV-29WX14/L, AV-2954W/E
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with the manufacturer's recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1) Input signal : Colour bar signal
(2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
(3) Internal resistance of tester : DC 20kΩ/V
(4) Oscilloscope sweeping time : H ⇒ 20μs/div
: V ⇒ 5ms/div
: Others ⇒ Sweeping time is specified
(5) Voltage values : All DC voltage values

∗Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

● Resistance value

No unit	: [Ω]
k	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
AC indicated	: AC withstand voltage [V]
Others	: DC withstand voltage [V]

∗Electrolytic Capacitors
47/50[Example] : Capacitance value [μF]/withstand voltage[V]

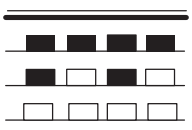
● Type

No indication	: Ceramic capacitor
MY	: Mylar capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3) Coils

No unit	: [μH]
Others	: As specified

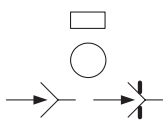
(4) Power Supply



∗Respective voltage values are indicated

(5) Test point

(6) Connecting method



(7) Ground symbol

⊥ : LIVE side ground
⏚ : ISOLATED(NEUTRAL) side ground
⏚ : EARTH ground
▽ : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not observed, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not observed, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **As a result of later perfermance improvement some part numbers shown in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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- **CRT SOCKET PWB CIRCUIT DIAGRAM** 2-9
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PATTERN DIAGRAMS

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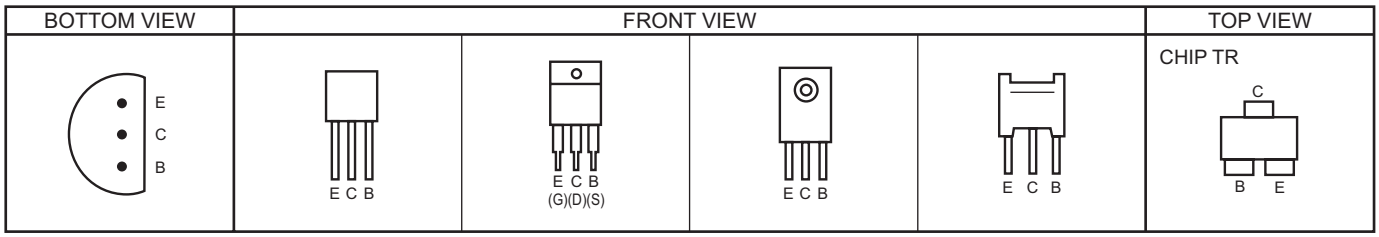
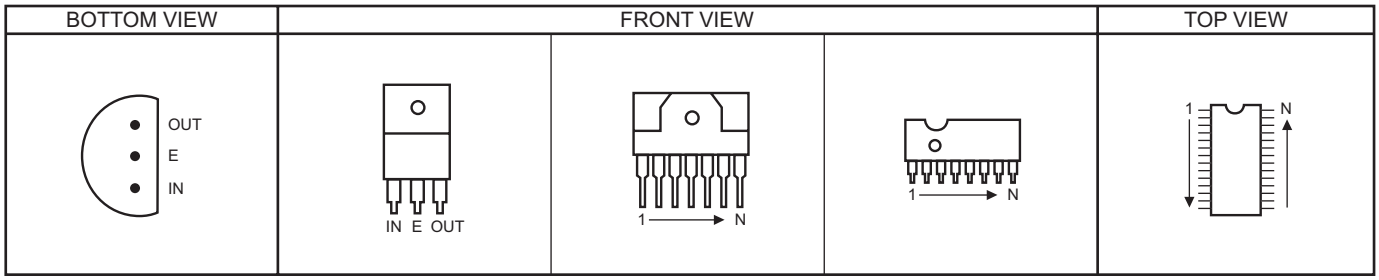
SEMICONDUCTOR SHAPES

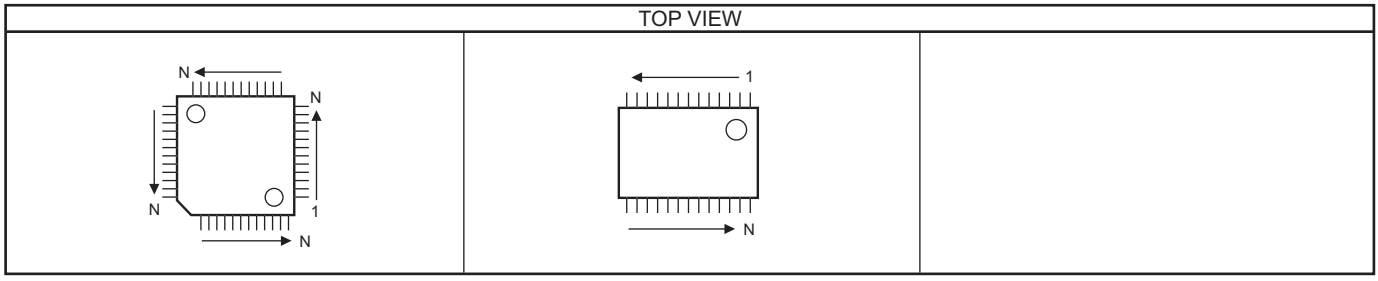
TRANSISTOR



IC



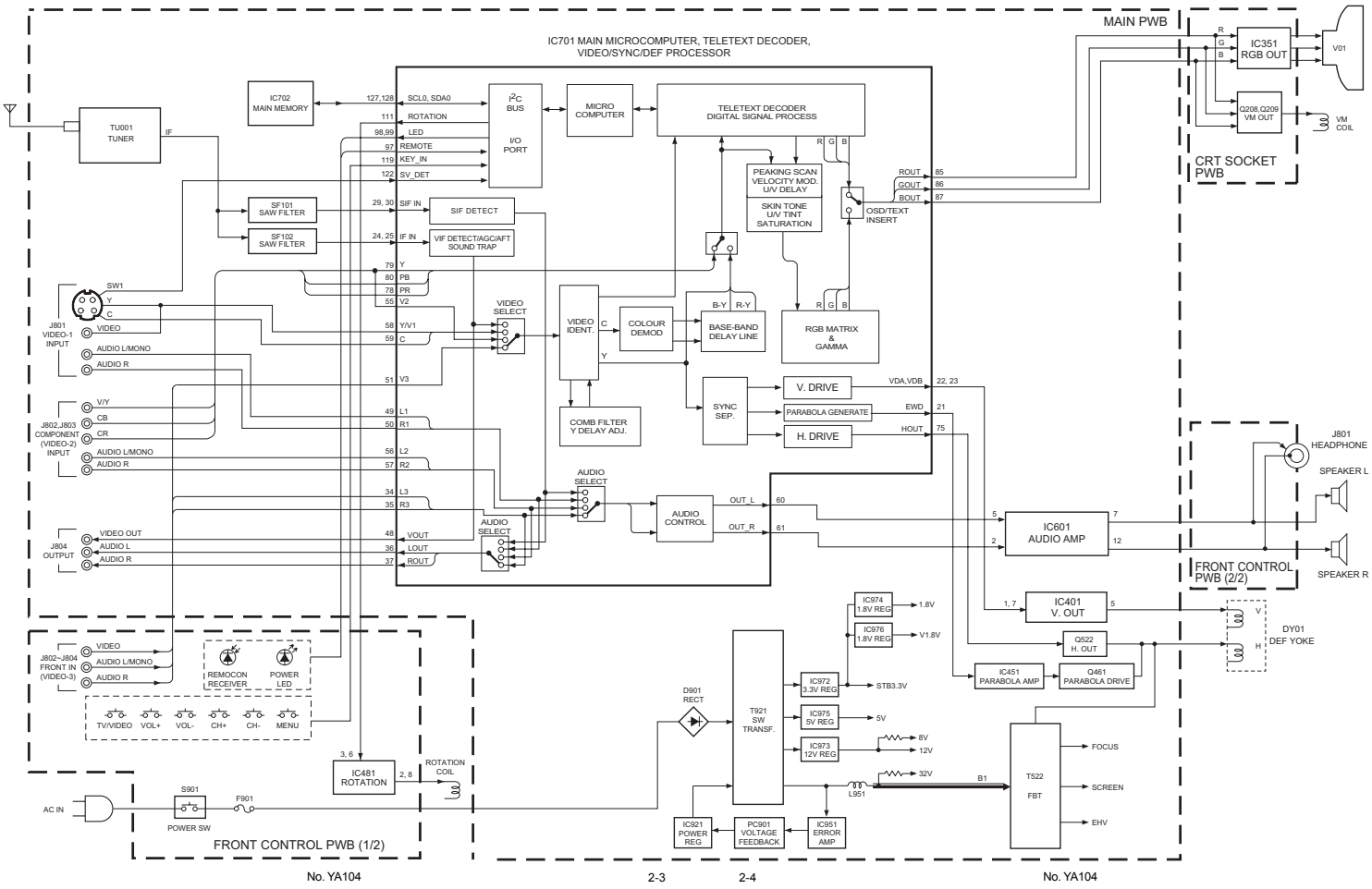
CHIP IC



USING P.W. BOARD

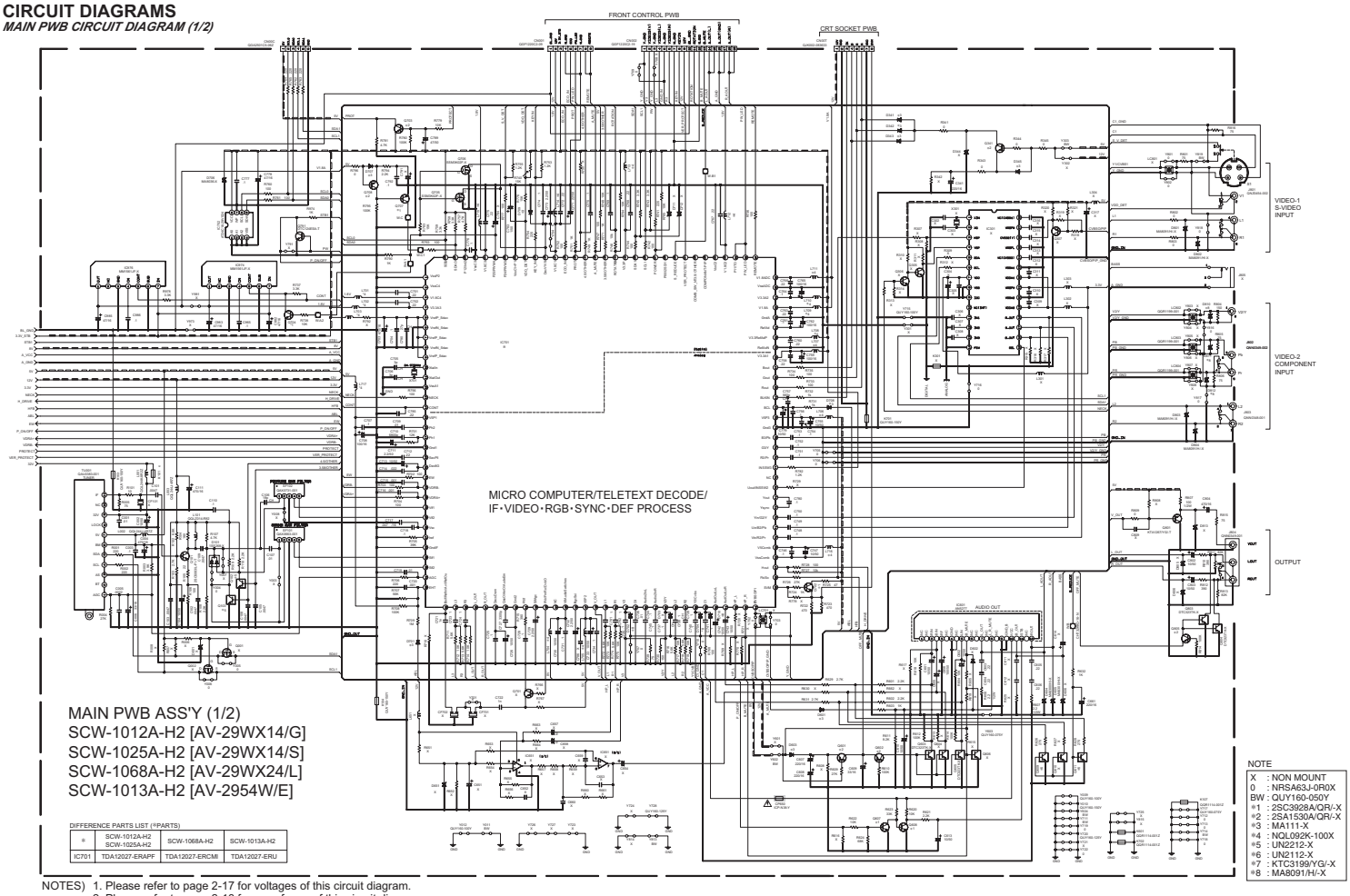
P.W. BOARD ASS'Y NAME	AV-29WX14/G	AV-2954W/E	AV-29WX24/L	AV-29WX14/S
MAIN P.W. BOARD	SCW-1012A-H2	SCW-1013A-H2	SCW-1008A-M2	SCW-1025A-H2
CRT SOCKET P.W. BOARD	SCW-3001A-H2	←	←	←
FRONT CONTROL P.W. BOARD	SCW-8001A-H2	←	←	←

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2)



MAIN PWB ASS'Y (1/2)
SCW-1012A-H2 [AV-29WX14/G]
SCW-1025A-H2 [AV-29WX14/S]
SCW-1068A-H2 [AV-29WX24/L]
SCW-1013A-H2 [AV-2954W/E]

DIFFERENCE PARTS LIST (*PARTS)

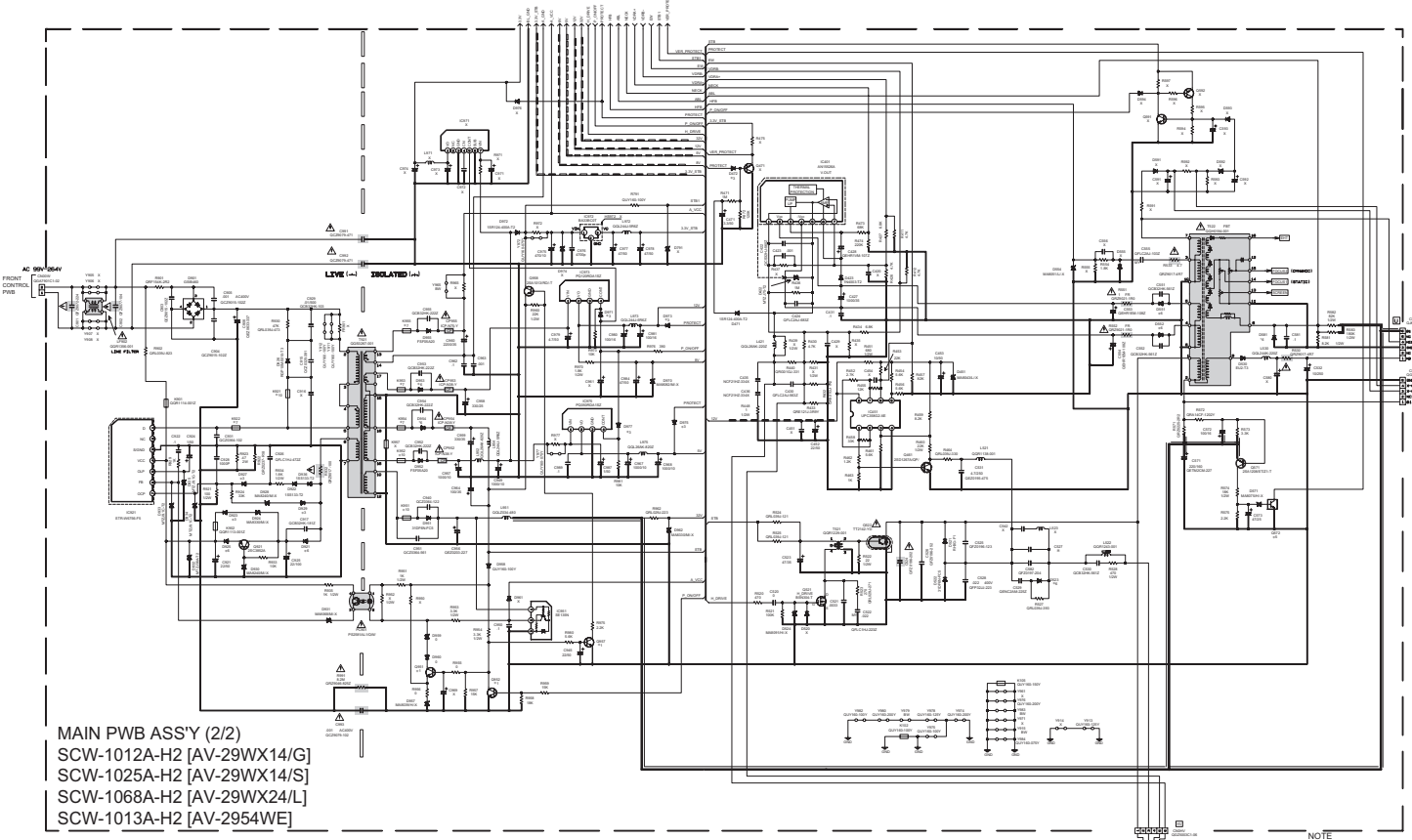
*	SCW-1012A-H2 SCW-1025A-H2	SCW-1068A-H2	SCW-1013A-H2
IC701	TDA12027-ERAPF	TDA12027-ERCMI	TDA12027-ERU

NOTE

X	: NON MOUNT
0	: NRSA63J-0R0X
BW	: QUY160-050Y
*1	: 2SC3928A/QR/-X
*2	: 2SA1530A/QR/-X
*3	: MA111-X
*4	: NQL092K-100X
*5	: UN2212-X
*6	: UN2112-X
*7	: KTC3199/YG/-X
*8	: MA8091/H/-X

NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM (2/2)



MAIN PWB ASS'Y (2/2)
SCW-1012A-H2 [AV-29WX14/G]
SCW-1025A-H2 [AV-29WX14/S]
SCW-1068A-H2 [AV-29WX24/L]
SCW-1013A-H2 [AV-2954WE]

NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

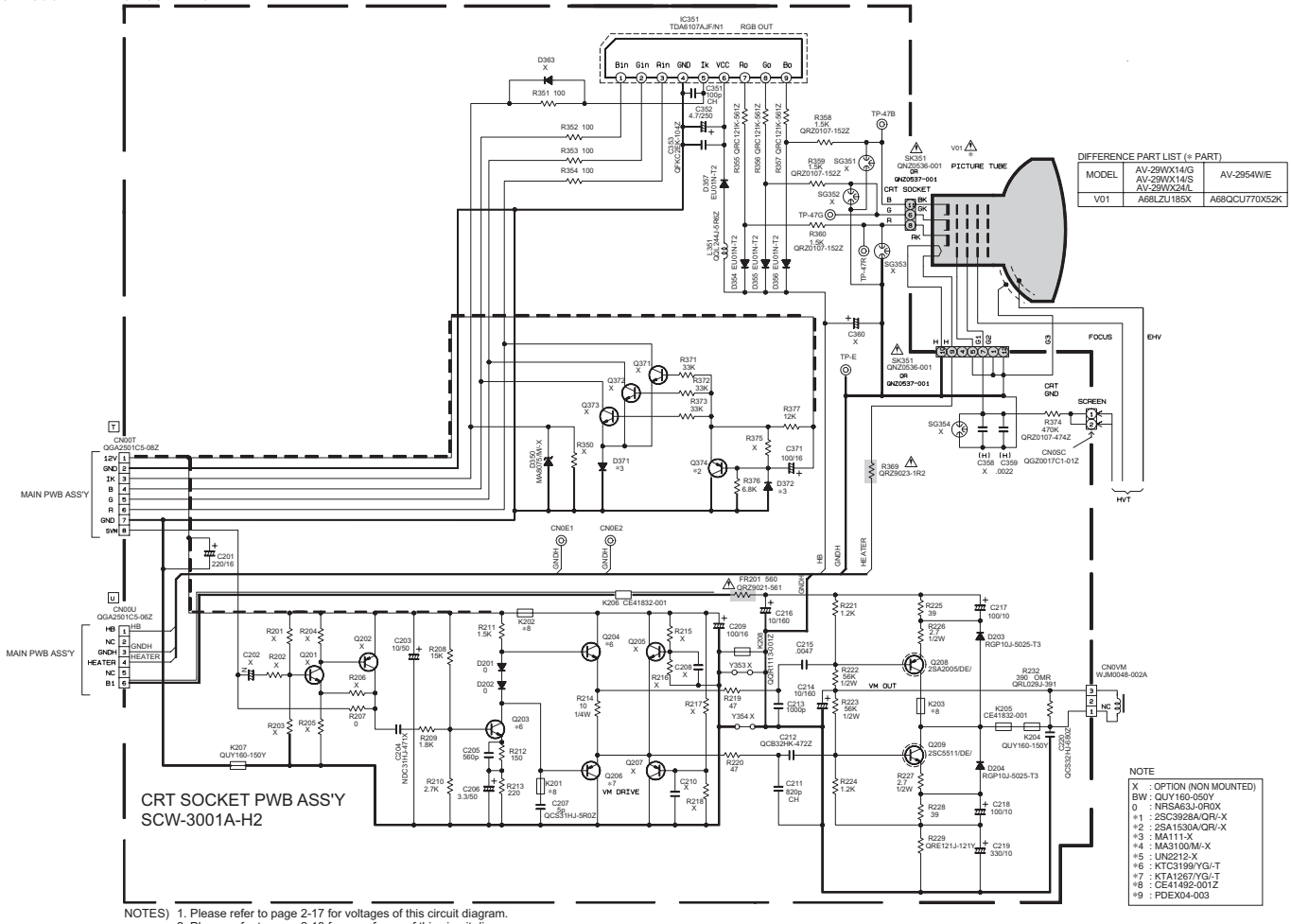
DIFFERENCE PARTS LIST (*PART)

*	SCW-1012A-H2 SCW-1025A-H2 SCW-1068A-H2	SCW-1013A-H2
DY01	QQD0106-001	With ITC
CS27	QFZ0197-224	QFZ0197-204

NOTE

0	: NRSA63J-0R0X
*1	: 2SC3928A/QR/-X
*2	: 2SA1530A/QR/-X
*3	: MA111-X
*4	: MA3100/M/-X
*5	: UN2212-X
*6	: RGP10J-5025-T3
*7	: QQR1113-001Z
*8	: MA8091/H/-X
BW	: QUY160-050Y
X	: OPTION (OPEN)

CRT SOCKET PWB CIRCUIT DIAGRAM



DIFFERENCE PART LIST (⊕ PART)

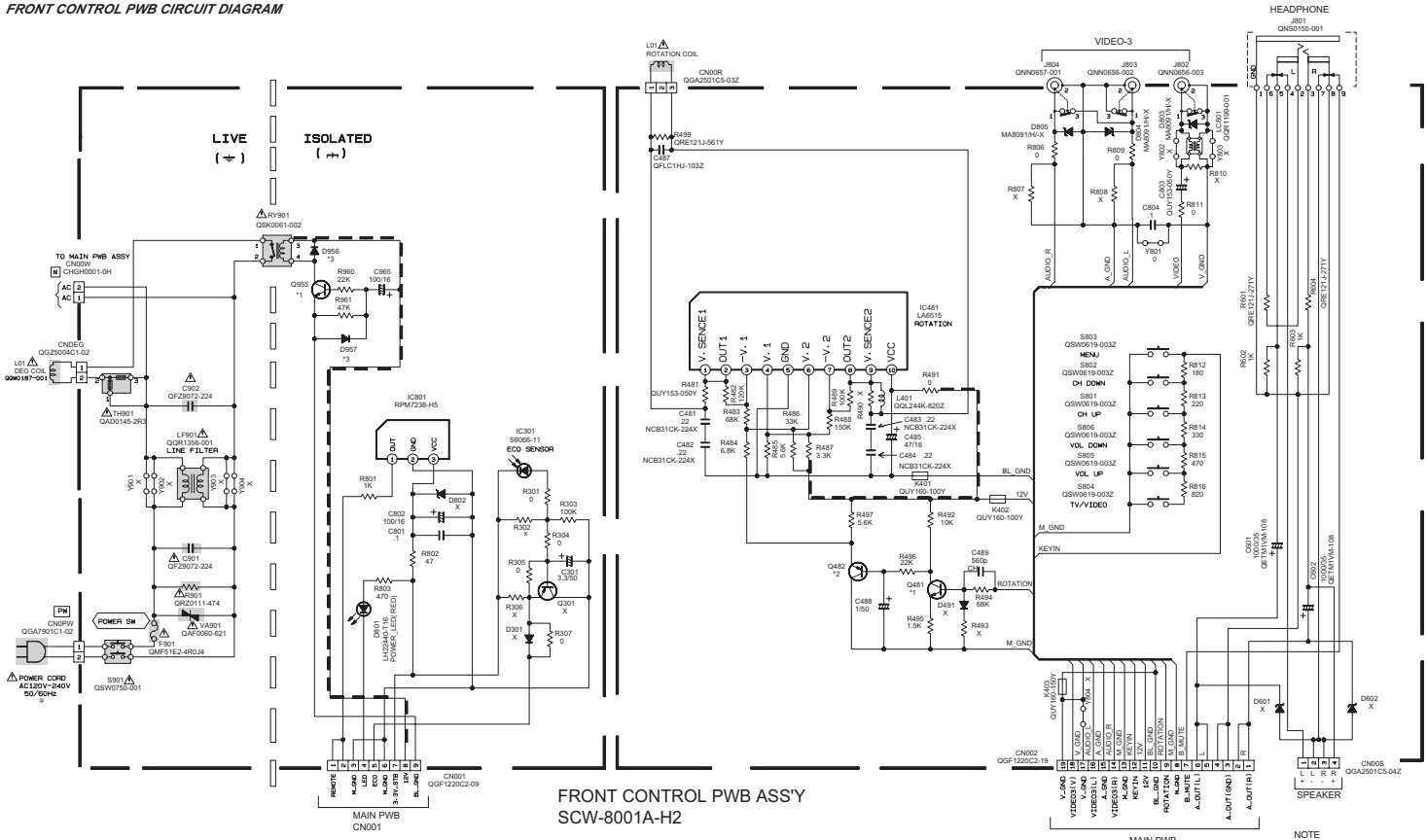
MODEL	AV-29WX14/G AV-29WX14/S AV-29WX24/L	AV-2954W/E
V01	A68LZU185X	A68QCU770X52K

NOTE

X : OPTION (NON MOUNTED)
BW : QUY160-050Y
0 : NRSA63J-0R0X
⊕1 : 2SC3928A/QR/-X
⊕2 : 2SA1530A/QR/-X
⊕3 : MA111-X
⊕4 : MA3100/M/-X
⊕5 : UN2212-X
⊕6 : KTC3199/YG/-T
⊕7 : KTA1267/YG/-T
⊕8 : CE41492-001Z
⊕9 : PDEX04-003

NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

FRONT CONTROL PWB CIRCUIT DIAGRAM



FRONT CONTROL PWB ASS'Y
SCW-8001A-H2

NOTE) Please refer to page 2-17 for voltages of this circuit diagram.

DIFFERENCE PARTS LIST (*PART)

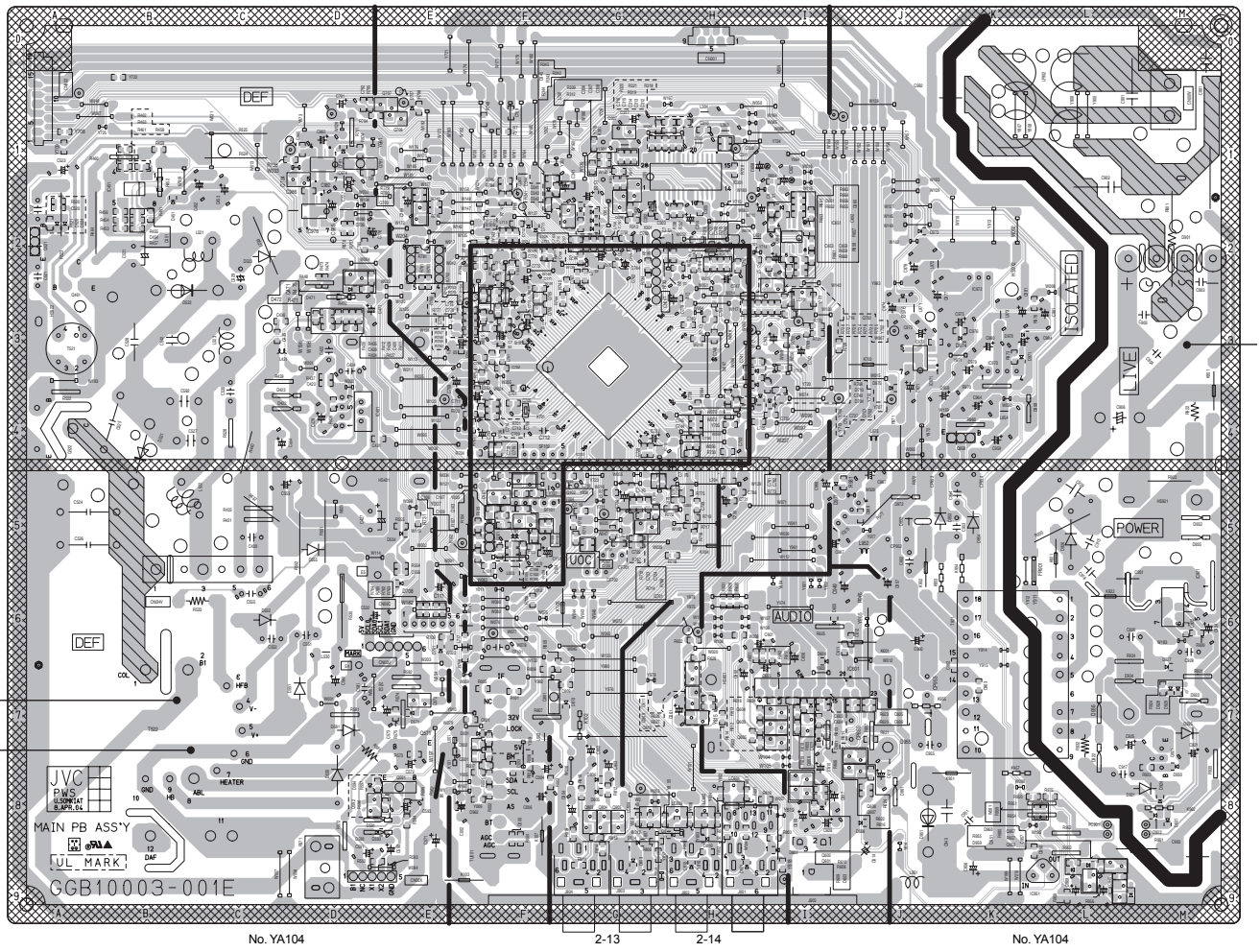
*	AV-29WX14/G AV-29WX24/L AV-2954W/E	AV-29WX14/S
POWER CORD	QMPR340-165-K2	QMPR650-165-JC

NOTE

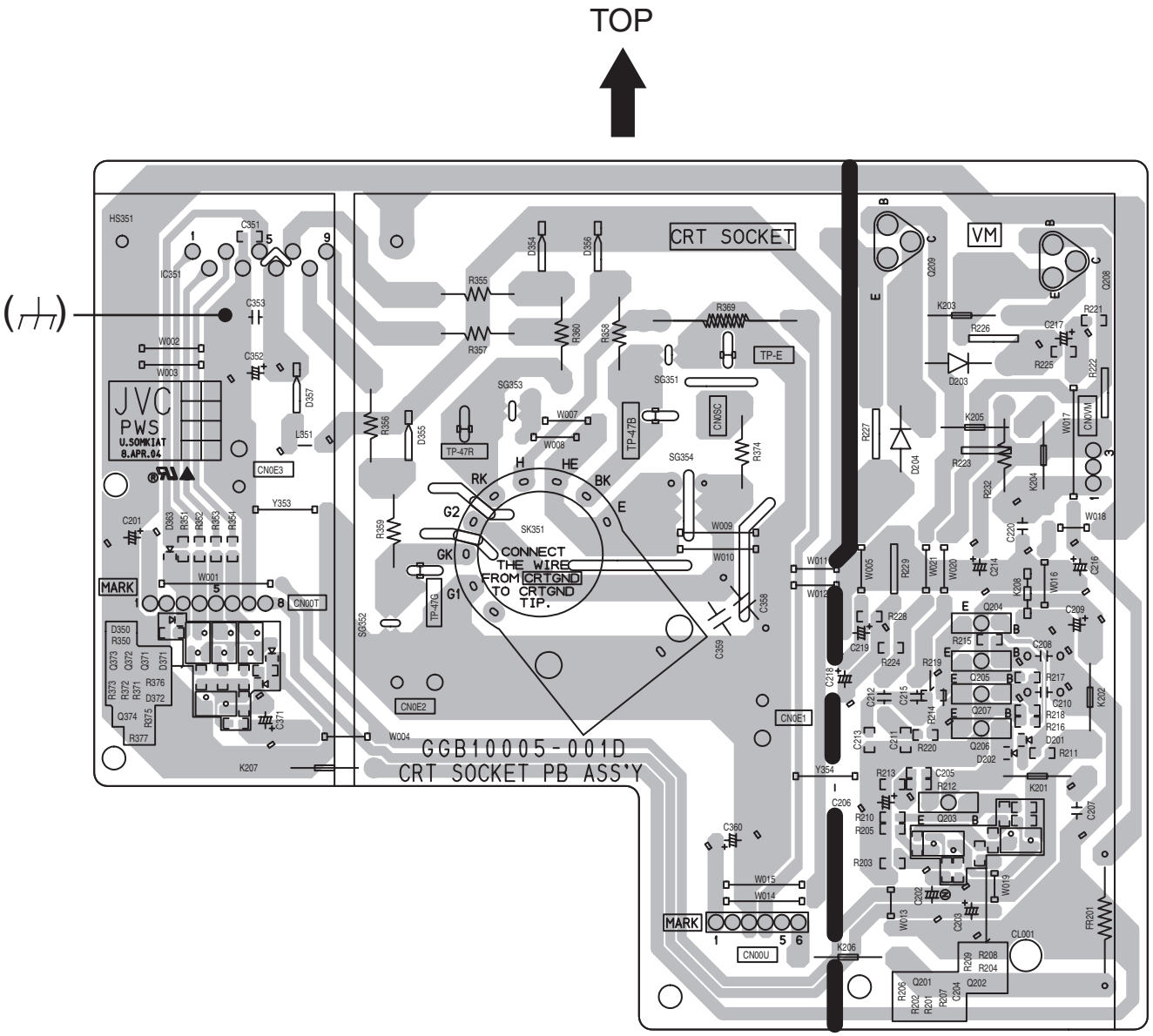
0 : NRSA63J-0R0X
*1 : 2SC3928A/QR/-X
*2 : 2SA1530A/QR/-X
*3 : MA111-X
X : OPEN (NON MOUNT)
BW : QUY160-050Y

PATTERN DIAGRAM

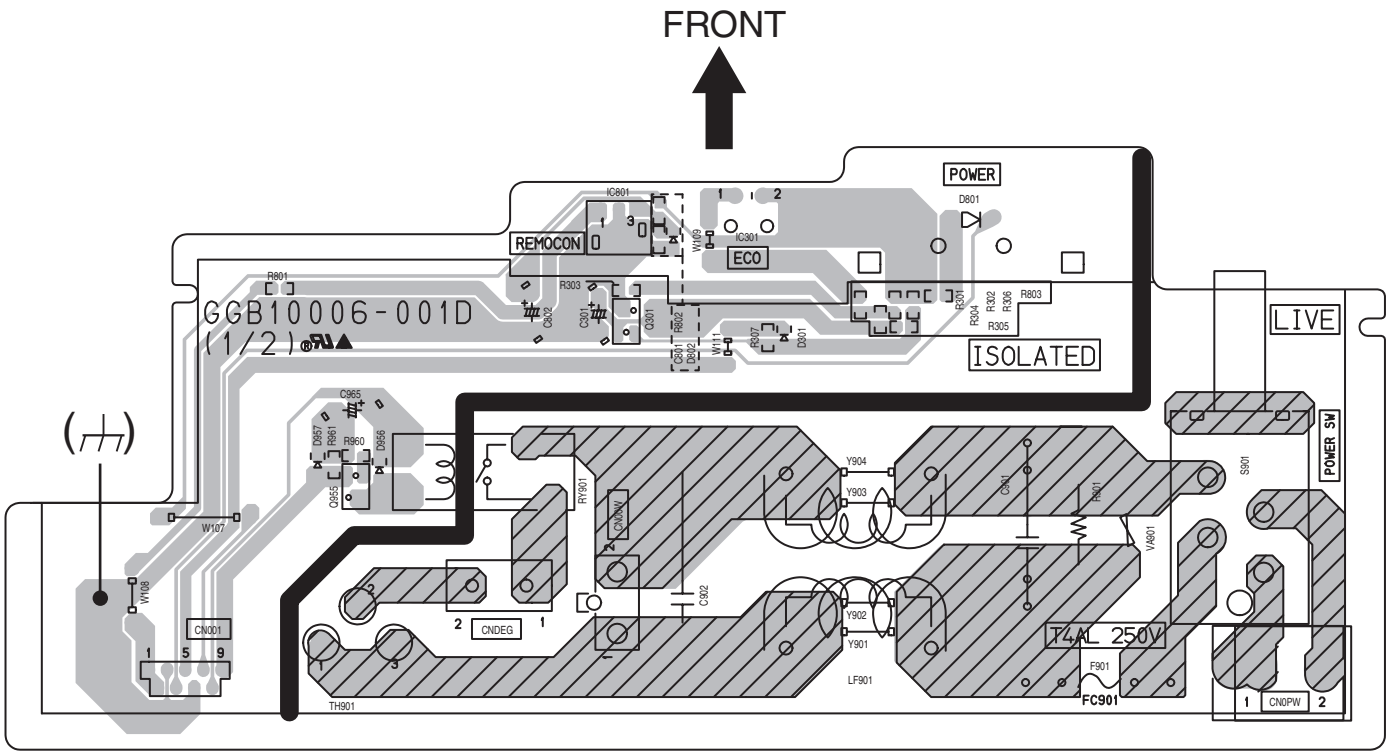
MAIN PWB PATTERN

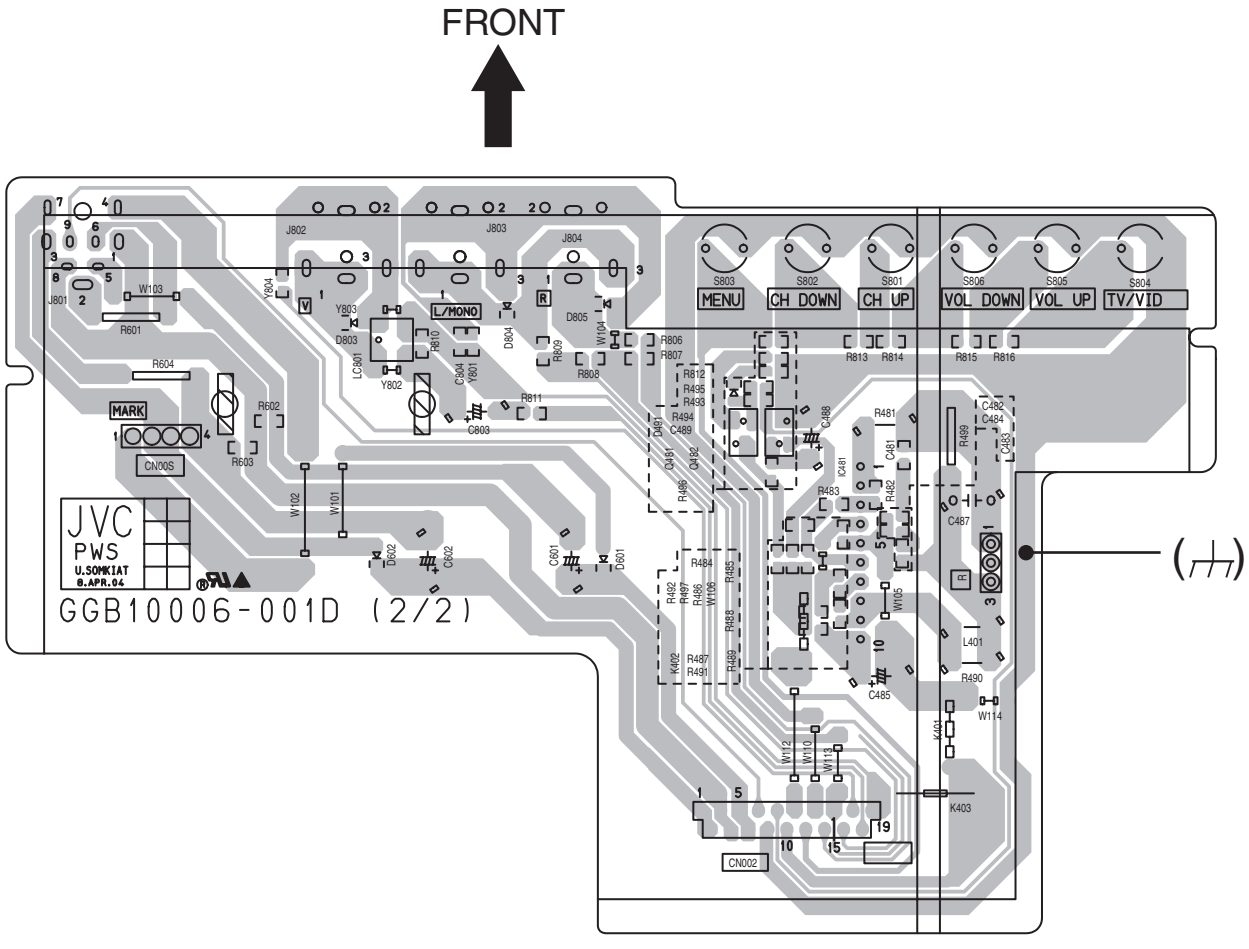


CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN





VOLTAGE CHART

<MAIN PWB>

PIN NO.	VOLTAGE(V)
IC401	
1	0.5
2	13.8
3	-11.7
4	-13.3
5	0
6	14.1
7	0.6
IC451	
1	1.6
2	4.2
3	4.1
4	0
5	2.2
6	2.2
7	4.4
8	11.8
IC601	
1	0
2	0
3	31.0
4	0
5	0
6	0
7	15.6
8	0.6
9	0
10	32.4
11	19.1
12	15.6
IC701	
1	0
2	0
3	1.7
4	3.2
5	3.2
6	0
7	3.2
8	0
9	3.2
10	1.6
11	1.5
12	0
13	0
14	0
15	0
16	1.9
17	0
18	0
19	0
20	2.3
21	2.1
22	1.4
23	1.4
24	1.9
25	1.9
26	2.4
27	2.0
28	0
29	1.9
30	1.9
31	2.0
32	1.8
33	0.6
34	2.2
35	2.1
36	0
37	3.5
38	2.3
39	2.5
40	0
41	2.0
42	1.8
43	2.0
44	0
45	8.3
46	0
47	4.9
48	1.2
49	2.2
50	2.2
51	1.4
52	1.6
53	2.2
54	2.2
55	1.4
56	2.2
57	0
58	0
59	0
60	3.6
61	3.5
62	3.6
63	3.5
64	0
65	2.0
66	0.3
67	1.6
68	0
69	4.9
70	1.3
71	1.4
72	1.3
73	1.9
74	1.7
75	0.1
76	0
77	3.2
78	1.2
79	1.2
80	0
81	0
82	4.9
83	2.3
84	3.7
85	1.9
86	2.0
87	2.0
88	3.2
89	0
90	3.2
91	1.5
92	0
93	1.8
94	3.1
95	0
96	1.7
97	3.1
98	0
99	0
100	1.8
101	0
102	3.2
103	3.2
104	0.7
105	0
106	0
107	0
108	1.9
109	1.9
110	3.2
111	1.6
112	3.2
113	0
114	3.2
115	0
116	2.6
117	1.8
118	1.8
119	3.2
120	3.1
121	0
122	3.2
123	0
124	1.8
125	0
126	3.2
127	3.1
128	3.1
IC1702	
1	0
2	0
3	0
4	0
5	3.1
6	3.0
7	0
8	3.2
IC1921	
1	297.5
3	0
4	19.9
5	0.2
6	1.0
7	1.3
IC1951	
1	135.3
2	24.9
3	0
IC1972	
1	6.4
2	0
3	3.3
IC1973	
1	15.8
2	11.8
3	0
4	2.8
IC974	
1	0
2	0
3	0
4	0.5
5	2.9
6	0
7	3.2
IC976	
1	1.8
2	0
3	0
4	0.5
5	2.9
6	0
7	3.2
Q101	
E	2.1
C	11.6
B	2.9
Q102	
E	0
C	0
B	3.1
Q103	
E	0
C	0
B	3.1
Q461	
E	0
C	19.7
B	0.5
Q521	
E	0
C	0
B	1.6
Q522	
E	0
C	131.0
B	-0.1
Q571	
E	135.2
C	0
B	134.9
Q572	
E	0
C	3.2
B	0
Q601	
E	8.2
C	0.2
B	8.2
Q602	
E	0.2
C	-0.3
B	0
Q603	
E	0
C	0
B	-0.4
Q605	
E	0
C	0
B	-0.3
Q607	
E	0
C	0
B	0.6
Q608	
E	0
C	21.6
B	0
Q702	
E	1.3
C	4.7
B	2.0
Q703	
E	3.2
C	0
B	3.2
Q801	
E	1.9
C	0
B	1.2
Q803	
E	0
C	0
B	-0.4
Q804	
E	0
C	0
B	-0.5
Q805	
E	0.2
C	-0.5
B	0
Q921	
E	20.4
C	53.8
B	20.8
Q951	
E	0
C	28.3
B	0.1
Q952	
E	0
C	0
B	0.7
Q957	
E	0
C	30.3
B	0.1
Q958	
E	30.4
C	6.4
B	30.3
TU001	
1	2.2
2	3.7
3	0
4	1.9
5	1.9
6	4.9
7	4.9
8	0
9	35.0
10	0
11	0

<CRT SOCKET PWB>

PIN NO.	VOLTAGE(V)
IC351	
1	2.0
2	2.0
3	2.0
4	0
5	5.0
6	0
7	130.8
8	127.0
9	0
Q203	
E	1.1
C	7.3
B	1.8
Q204	
E	7.0
C	11.8
B	7.3
Q206	
E	7.1
C	0
B	7.3
Q208	
E	125.1
C	64.1
B	124.4
Q209	
E	2.7
C	64.1
B	3.2

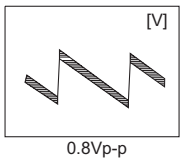
<FRONT CONTROL PWB>

PIN NO.	VOLTAGE(V)
IC481	
1	6.2
2	6.2
3	7.3
4	7.4
5	0
6	8.0
7	8.0
8	8.5
9	8.4
10	11.8
IC801	
1	3.1
2	3.2
3	0
Q481	
E	0.8
C	6.6
B	1.4
Q482	
E	7.3
C	0
B	6.6
Q955	
E	0
C	11.8
B	0

WAVEFORMS

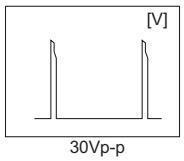
-MAIN PWB-

IC401-1



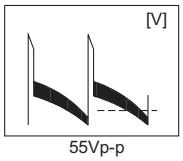
0.8Vp-p

IC401-3



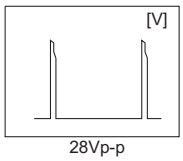
30Vp-p

IC401-5



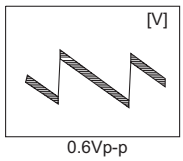
55Vp-p

IC401-6



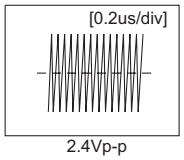
28Vp-p

IC401-7



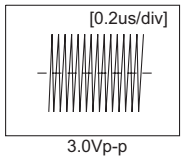
0.6Vp-p

IC701-10



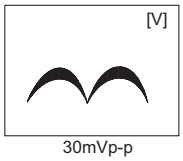
2.4Vp-p

IC701-11



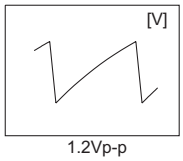
3.0Vp-p

IC701-21



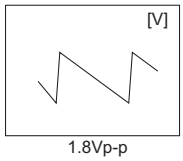
30mVp-p

IC701-22



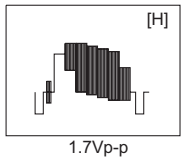
1.2Vp-p

IC701-23



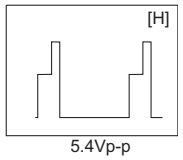
1.8Vp-p

IC701-48



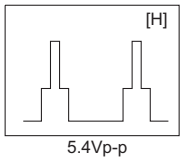
1.7Vp-p

IC701-65



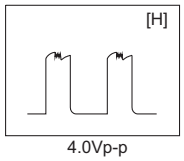
5.4Vp-p

IC701-66



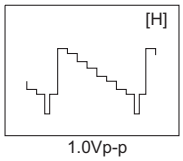
5.4Vp-p

IC701-67



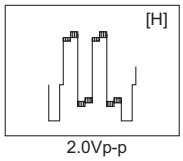
4.0Vp-p

IC701-74



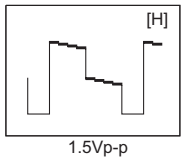
1.0Vp-p

IC701-85



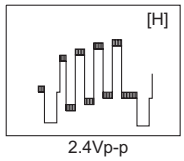
2.0Vp-p

IC701-86



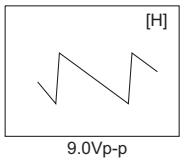
1.5Vp-p

IC701-87



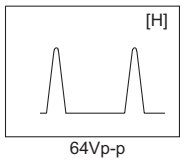
2.4Vp-p

T522-2



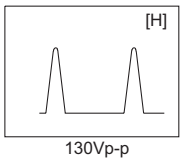
9.0Vp-p

T522-3



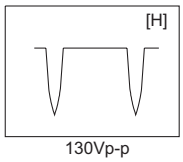
64Vp-p

T522-4



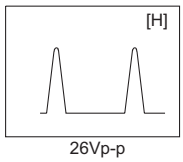
130Vp-p

T522-5



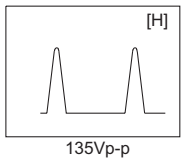
130Vp-p

T522-7



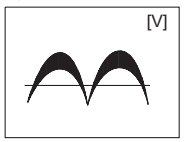
26Vp-p

T522-9



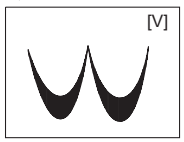
135Vp-p

Q461-B



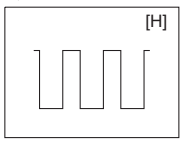
0.6Vp-p

Q461-C



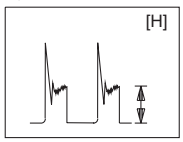
17Vp-p

Q521-B



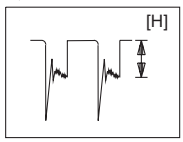
4.5Vp-p

Q521-C



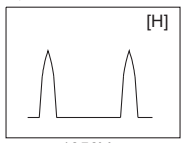
50Vp-p

Q522-B



2.8Vp-p

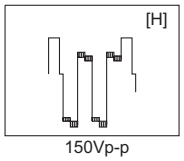
Q522-C



1050Vp-p

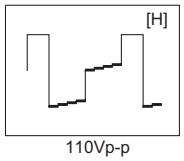
-CRT SOCKET PWB-

IC351-7



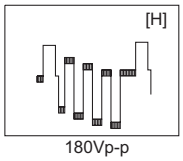
150Vp-p

IC351-8



110Vp-p

IC351-9



180Vp-p

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(No. YA104)

Printed in Japan
WPC

JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-2934W/ESK,
AV-2953W/ESK

BASIC CHASSIS
CW

Supplementary

The following items for the AV-2934W/ESK and AV-2953W/ESK were changed partly from AV-2954W/E. Therefore, this service manual describes only the items which differ from those of the AV-2954W/E service manual.
For details other than those described in this manual, please refer to the AV-2954W/E service manual (No.YA104, 2004/7).

FEATURE LIST

Item	AV-2954W/E	AV-2934W/ESK	AV-2953W/ESK
Production place	THAILAND	RUSSIA (Kit production)	←
Stereo system	A2(B/G) / NICAM(B/G,I,D/K)	Playback	A2(B/G) / NICAM(B/G,I,D/K)

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No.YA104B
2004/8

DIFFERENCE LIST

USING P.W. BOARD (Page 3-3)

P.W.B ASS'Y Name	AV-2954W/E	AV-2934W/ESK	DESCRIPTION
MAINP.W.B	SCW-1013A-H2	SCW-1076A-H2	Non compatible
CRT SOCKET P.W.B	SCW-3001A-H2	SCW-3016A-H2	Non compatible

P.W.B ASS'Y Name	AV-2954W/E	AV-2953W/ESK	DESCRIPTION
MAINP.W.B	SCW-1013A-H2	SCW-1071A-H2	Non compatible
CRT SOCKET P.W.B	SCW-3001A-H2	SCW-3006A-H2	Non compatible
FRONT CONTROL P.W.B	SCW-8001A-H2	SCW-8005A-H2	Non compatible

EXPLODED VIEW PARTS LIST-1 (Page 3-3)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2954W/E	AV-2934W/ESK		
⚠	100	GG10189-001A-H	GG10189-006A-HK	FRONT CABINET ASS'Y	Inc.No.101-102
	101	GG20027-001B-H	GG20027-006B-H	DOOR	

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2954W/E	AV-2953W/ESK		
⚠	100	GG10189-001A-H	GG10189-001A-HK	FRONT CABINET ASS'Y	Inc.No.101-102

EXPLODED VIEW PARTS LIST-2 (Page 3-4)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2954W/E	AV-2934W/ESK AV-2953W/ESK		
⚠	V01	A68QCU770X52K	A68QCU770X52ND	ITC	Inc.DEF YOKE/PC MAGNET/WEDGE
⚠	12	GG10192-001B-H	GG10192-001B-HK	REAR COVER	
⚠	17	LC11061-001A-H	LC11061-001A-HK	CHASSIS BASE	
	21	CE42568-00A	---	PC MAGNET	(Delete)
	22	CE40764-00A	---	WEDGE ASS'Y	(Delete)

PRINTED WIRING BOARD PARTS LIST [AV-2934W/ESK]

MAIN P.W. BOARD ASS'Y (Page 3-19)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2954W/E	AV-2934W/ESK		
		SCW-1013A-H2	SCW-1076A-H2		
	D705	MA8039/H/-X	---	Z DIODE	(Delete)
	D714	MA8030/H/-X	---	Z DIODE	(Delete)
	D751	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	D753	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	D814	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	C725	NCB31HK-104X	---	C CAPACITOR	0.1uF 50V K
	R520	NRSA63J-471X	QRE141J-471Y	C RESISTOR	470Ω 1/4W J

CRT SOCKET P.W. BOARD ASS'Y (Page 3-20)

The number of PWB have been changed. However, there is no change in component parts.

PRINTED WIRING BOARD PARTS LIST [AV-2953W/ESK]

MAIN P.W. BOARD ASS'Y (Page 3-19)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2954W/E	AV-2953W/ESK		
		SCW-1013A-H2	SCW-1071A-H2		
	D423	GP10DE-5009-T2	1N4003-T2	SI DIODE	
	D705	MA8039/H/-X	---	Z DIODE	(Delete)
	D714	MA8030/H/-X	---	Z DIODE	(Delete)
	D751	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	D753	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	D814	MA8091/H/-X	MTZJ9.1C-T2	Z DIODE	
	D815	MA8091/H/-X	---	Z DIODE	(Delete)
	C771	---	MTZJ3.3A-T2	Z DIODE	(Addition)
	C784	---	MTZJ4.7B-T2	Z DIODE	(Addition)
	R520	NRSA63J-471X	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
	K923	QUY160-050Y	---		(Delete)
	K924	QUY160-050Y	---		(Delete)

CRT SOCKET P.W. BOARD ASS'Y (SCW-3006A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC351	TDA6107AJF/N1	IC	
Q203	KTC3199/YG/-T	TRANSISTOR	
Q204	KTC3199/YG/-T	TRANSISTOR	
Q206	KTA1267/YG/-T	TRANSISTOR	
Q208	2SA2005/DE/	POW TRANSISTOR	
Q209	2SC5511/DE/	POW TRANSISTOR	
Q374	2SA933AS/QR/-T	TRANSISTOR	
D201	1SS244-T2	SI DIODE	
D202	1SS244-T2	SI DIODE	
D203	RGP10J-5025-T3	SI DIODE	
D204	RGP10J-5025-T3	SI DIODE	
D350	MTZJ7.5C-T2	Z DIODE	
D354	EU01N-T2	SI DIODE	
D355	EU01N-T2	SI DIODE	
D356	EU01N-T2	SI DIODE	
D357	EU01N-T2	SI DIODE	
D371	1SS244-T2	SI DIODE	
D372	1SS244-T2	SI DIODE	
C201	QETM1CM-227	E CAPACITOR	220uF 16V M
C203	QETM1HM-106	E CAPACITOR	10uF 50V M
C204	QCB32HK-471	C CAPACITOR	470pF 500V K
C205	QCB32HK-561	C CAPACITOR	560pF 500V K
C206	QETM1HM-335	E CAPACITOR	3.3uF 50V M
C207	QCS31HJ-5R0	C CAPACITOR	5pF 50V J
C209	QETM1CM-107	E CAPACITOR	100uF 16V M
C211	QCB31HK-821Z	C CAPACITOR	820pF 50V K
C212	QCB32HK-472	C CAPACITOR	4700pF 500V K
C213	QCB32HK-102	C CAPACITOR	1000pF 500V K
C214	QETM2CM-106	E CAPACITOR	10uF 160V M
C215	QCB32HK-472	C CAPACITOR	4700pF 500V K
C216	QETM2CM-106	E CAPACITOR	10uF 160V M
C217	QETM1AM-107	E CAPACITOR	100uF 10V M
C218	QETM1AM-107	E CAPACITOR	100uF 10V M
C219	QETM1AM-337	E CAPACITOR	330uF 10V M
C220	QCS32HJ-680	C CAPACITOR	68pF 500V J
C351	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C352	QETM2EM-475	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C359	QCZ0131-222	C CAPACITOR	2200pF 2kV K
C371	QETM1CM-107	E CAPACITOR	100uF 16V M
R207	QRE142J-0R0	C RESISTOR	0Ω 1/4W J
R208	QRE142J-153	C RESISTOR	15kΩ 1/4W J
R209	QRE142J-152	C RESISTOR	1.5kΩ 1/4W J
R210	QRE142J-272	C RESISTOR	2.7kΩ 1/4W J
R211	QRE142J-152	C RESISTOR	1.5kΩ 1/4W J
R212	QRE142J-151	C RESISTOR	150Ω 1/4W J
R213	QRE142J-221	C RESISTOR	220Ω 1/4W J
R214	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
R219	QRE142J-470	C RESISTOR	47Ω 1/4W J
R220	QRE142J-470	C RESISTOR	47Ω 1/4W J
R221	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J
R222	QRE122J-563	C RESISTOR	56kΩ 1/2W J
R223	QRE122J-563	C RESISTOR	56kΩ 1/2W J
R224	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J
R225	QRE142J-390	C RESISTOR	39Ω 1/4W J
R226	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J
R227	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J
R228	QRE142J-390	C RESISTOR	39Ω 1/4W J
R229	QRE122J-121	C RESISTOR	120Ω 1/2W J
R232	QRL029J-391	OMF RESISTOR	390Ω 2W J

⚠Ref No.	Part No.	Part Name	Description Local
R351	QRE142J-101	C RESISTOR	100Ω 1/4W J
R352	QRE142J-101	C RESISTOR	100Ω 1/4W J
R353	QRE142J-101	C RESISTOR	100Ω 1/4W J
R354	QRE142J-101	C RESISTOR	100Ω 1/4W J
R355	QRC122K-561	COMP RESISTOR	560Ω 1/2W K
R356	QRC122K-561	COMP RESISTOR	560Ω 1/2W K
R357	QRC122K-561	COMP RESISTOR	560Ω 1/2W K
R358	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K
R369	QRZ9023-1R2	FUSI RESISTOR	1.2Ω 2W J
R371	QRE142J-333	C RESISTOR	33kΩ 1/4W J
R372	QRE142J-333	C RESISTOR	33kΩ 1/4W J
R373	QRE142J-333	C RESISTOR	33kΩ 1/4W J
R374	QRZ0111-474	C RESISTOR	470kΩ 1/2W K
R376	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J
R377	QRE142J-123	C RESISTOR	12kΩ 1/4W J
L351	QQL244J-5R6Z	COIL	5.6uH J
CN0VM	WJM0048-002A	E-SI C WIRE C-F	
⚠FR201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
HS208	CEHP00N-001QS	HEAT SINK	
HS209	CEHP00N-001QS	HEAT SINK	
HS351	LC31150-002A	HEAT SINK/AL-F1	
K201	CE41492-001Z	CHOKE COIL	
K202	CE41492-001Z	CHOKE COIL	
K203	CE41492-001Z	CHOKE COIL	
K204	CH41005-H-15C	FORMING BUS WIR	
K205	CE41832-001	LEAD CORE	
K206	CE41832-001	LEAD CORE	
K207	CH41005-H-15C	FORMING BUS WIR	
K208	QQR1113-001Z	FERRITE BEADS	
⚠SK351	QNZ0536-001	CRT SOCKET	

FRONT CONTROL P.W. BOARD ASS'Y (Page 3-10)

The number of PWB have been changed. However, there is no change in component parts.

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(No.YA104B)

Printed in Japan
WPC

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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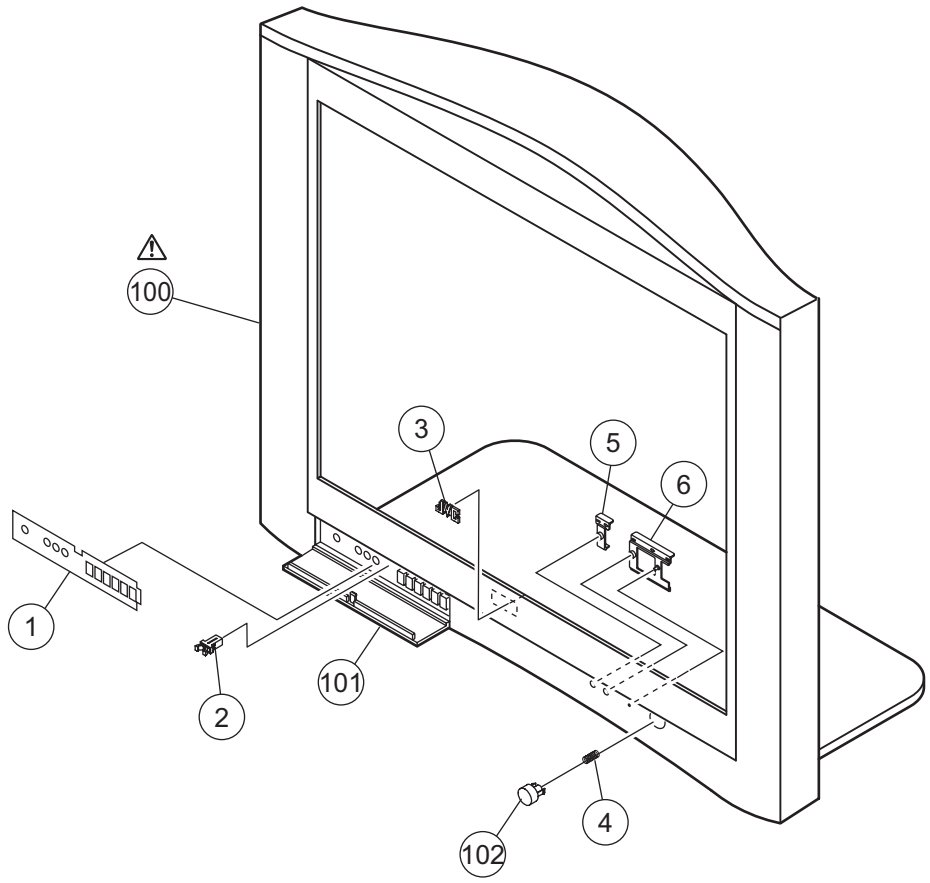
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-29WX14/G	AV-29WX14/S	AV-29WX24/L	AV-2954W/E
MAIN P.W.B	SCW-1012A-H2	SCW-1025A-H2	SCW-1068A-H2	SCW-1013A-H2
CRT SOCKET P.W.B	SCW-3001A-H2	←	←	←
FRONT CONTROL P.W.B	SCW-8001A-H2	←	←	←
REMOTE CONTROL UNIT	RM-C1281-2H	←	←	←

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG20028-003A-H	OPERATION SHEET		
	2	CM48229-00A-C	DOOR LATCH		
	3	LC41037-003A-H	JVC MARK		
	4	CM35235-003-H	SPRING		
	5	GG30050-001C-H	REMOCON LENS		
	6	GG30049-001D-H	LED LENS		
⚠	100	GG10189-002A-H	FRONT CABINET ASS'Y	Inc.101,102	AV-29WX14/G,AV-29WX14/S
⚠	100	GG10189-006A-H	FRONT CABINET ASS'Y	Inc.101,102	AV-29WX24/L
⚠	100	GG10189-001A-H	FRONT CABINET ASS'Y	Inc.101,102	AV-2954W/E
	101	GG20027-002B-H	DOOR		AV-29WX14/G,AV-29WX14/S
	101	GG20027-006B-H	DOOR		AV-29WX24/L
	101	GG20027-001B-H	DOOR		AV-2954W/E
	102	GG30048-001B-H	POWER KNOB		

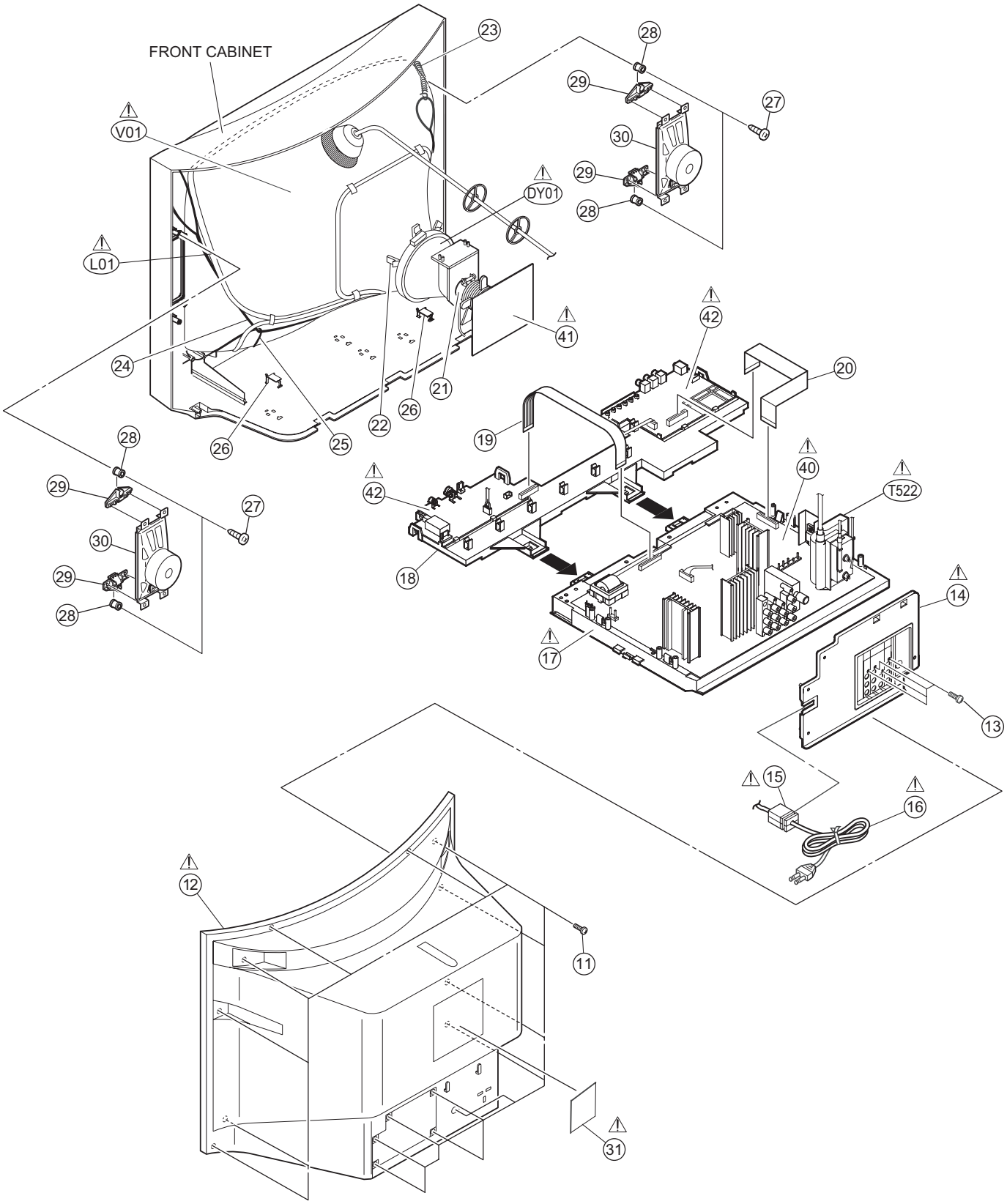
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A68LZU185X	PICTURE TUBE		AV-29WX14/G,AV-29WX14/S,AV-29WX24/L
⚠	V01	A68QCU770X52K	PICTURE TUBE(ITC)	Inc.DEF YOKE	AV-2954W/E
⚠	DY01	QQD0106-001	DEF YOKE		AV-29WX14/G,AV-29WX14/S,AV-29WX24/L
⚠	L01	QQW0187-001	DEG COIL	Inc.ROTATION COIL	
⚠	T522	QQH0184-001	FB TRANSF		
	11	QYSBSFG4016Z	TAP SCREW	M4 x 16mm(x16)	
⚠	12	GG10192-001B-H	REAR COVER		
	13	QYSBSF3012M	TAP SCREW	M3 x 12mm(x4)	
⚠	14	LC11064-001B-H	AV BOARD		
⚠	15	CM23167-A01-H	POWER CORD CLAMP		
⚠	16	QMPR340-165-K2	POWER CORD	1.65m BLACK	AV-29WX14/G,AV-29WX24/L,AV-2954W/E
⚠	16	QMPR650-165-JC	POWER CORD	1.65m BLACK	AV-29WX14/S
⚠	17	LC11061-001A-H	CHASSIS BASE		
	18	LC11062-001E-H	CONTROL BASE		
	19	QUQ212-0916CH	FFC WIRE	9pin 16cm	
	20	WJS0052-001A	E-FL/RB WIRE		
	21	CE42568-00A	PC MAGNET		
	22	CE40764-00A	WEDGE ASS'Y	(x4)	
	23	A48457-3-H	SPRING		
	24	WJY0018-001A	BRAIDED ASS'Y		
	25	CHGB0017-0C	BRAIDED SUB ASS'Y	(x2)	
	26	LC30103-001B-H	CHASSIS ADAPTER	(x2)	
	27	LC40317-002A-H	TAP SCREW	(x4)	
	28	LC40226-004A-H	SPACER	(x4)	
	29	GG20057-001A-H	SP HOLDER	(x4)	
	30	QAS0139-001	SPEAKER	(x2) SP01,SP02	
⚠	31	GG20024-001B-H	RATING LABEL		
⚠	40	SCW-1012A-H2	MAIN PWB		AV-29WX14/G
⚠	40	SCW-1025A-H2	MAIN PWB		AV-29WX14/S
⚠	40	SCW-1068A-H2	MAIN PWB		AV-29WX24/L
⚠	40	SCW-1013A-H2	MAIN PWB		AV-2954W/E
⚠	41	SCW-3001A-H2	CRT SOCKET PWB		
⚠	42	SCW-8001A-H2	FRONT CONTROL PWB		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST [AV-29WX14/G]

MAIN P.W. BOARD ASS'Y (SCW-1012A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC		
IC451	UPC358G2-XE	IC		
IC601	AN5277	IC		
IC701	TDA12027-ERAPF	IC(MCU)	(SERVICE)	
IC702	AT24C16-29VS24	IC	(SERVICE)	
IC921	STR-W6756-F5	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC974	MM1561JF-X	IC		
IC975	PQ050RDA1SZ	IC		
IC976	MM1561JF-X	IC		
Q101	2SC5083/L-P/-T	TRANSISTOR		
Q102	UN2212-X	DIGI TRANSISTOR		
Q103	UN2212-X	DIGI TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q461	2SD1267A/QP/	POW TRANSISTOR		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2142-YD	TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	DTC323TK-X	DIGI TRANSISTOR		
Q605	DTC323TK-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2212-X	DIGI TRANSISTOR		
Q611	UN2212-X	DIGI TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q703	2SA1530A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	DTC124ESA-T	DIGI TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	DTC323TK-X	DIGI TRANSISTOR		
Q804	DTC323TK-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q921	2SC3852A	POW TRANSISTOR		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
D101	1SS268-X	SI DIODE		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D422	MTZJ75-T2	Z DIODE		
D423	1N4003-T2	SI DIODE		
D451	MA8043/L/-X	Z DIODE		
D471	1SR124-400A-T2	SI DIODE		
D472	MA111-X	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	31DF6N-FC5	SI DIODE		
D523	RGP10J-5025-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	EU2-T3	SI DIODE		
D551	RGP10J-5025-T3	SI DIODE		
D552	RGP10J-5025-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	RGP10J-5025-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D604	MA8300/H/-X	Z DIODE		
D605	MA8300/H/-X	Z DIODE		
D607	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D801	MA8091/H/-X	Z DIODE		
D802	MA8091/H/-X	Z DIODE		
D803	MA8091/H/-X	Z DIODE		
D804	MA8091/H/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D901	GSIB460	BRIDGE DIODE		
D921	RGP10J-5025-T3	SI DIODE		
D922	1SS133-T2	SI DIODE		
D923	MA111-X	SI DIODE		
D924	MA8330/M/-X	Z DIODE		
D925	RGP10J-5025-T3	SI DIODE		
D926	RGP10M-5010-T3	SI DIODE		
D927	MA111-X	SI DIODE		
D928	MA8240/M/-X	Z DIODE		
D929	MA111-X	SI DIODE		
D930	MA8240/M/-X	Z DIODE		
D931	MA8062/M/-X	Z DIODE		
D932	MTZJ36A-T2	Z DIODE		
D933	MTZJ9.1C-T2	Z DIODE		
D934	MTZJ9.1C-T2	Z DIODE		
D935	MTZJ9.1C-T2	Z DIODE		
D936	1SS133-T2	SI DIODE		
D951	31DF6N-FC5	SI DIODE		
D952	FSF05A20	SI DIODE		
D953	RGP10J-5025-T3	SI DIODE		
D954	RGP10J-5025-T3	SI DIODE		
D955	FSF05A20	SI DIODE		
D957	MA8039/H/-X	Z DIODE		
D959	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D960	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C452	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C453	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description Local
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
C571	QETM2CM-227	E CAPACITOR	220uF 160V M
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C609	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C703	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K
C724	NCB21CK-105X	C CAPACITOR	1uF 16V K
C725	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1HM-227Z	E CAPACITOR	220uF 50V M
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C738	NCB21CK-105X	C CAPACITOR	1uF 16V K
C739	NCB21CK-105X	C CAPACITOR	1uF 16V K
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C769	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C771	MTZJ3.3A-T2	Z DIODE	
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K
C782	NCB21CK-105X	C CAPACITOR	1uF 16V K
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C784	MTZJ4.7B-T2	Z DIODE	
C785	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0633-337	E CAPACITOR	330uF 450V M
C915	QCZ0325-391	C CAPACITOR	390pF 2kV K
C917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C921	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C924	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C925	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C926	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J
C928	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J
C929	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C931	QCZ0364-102	C CAPACITOR	1000pF 2kV K
C940	QCZ0364-122	C CAPACITOR	1200pF 2kV K
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C949	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C951	QCZ0364-561	C CAPACITOR	560pF 2kV K
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C954	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C956	QEZ0203-227	E CAPACITOR	220uF 160V M
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C967	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C968	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C975	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C977	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C978	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C983	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C984	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R451	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R452	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R454	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R455	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R456	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R457	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R458	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R459	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R460	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R461	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R462	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R463	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J
R471	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R472	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R525	QRL039J-121	OMF RESISTOR	120Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R602	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R628	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R629	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R792	QRE123J-330X	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R902	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R922	QRZ0237-R18	UNF WW RESISTOR	0.18Ω 3W J
R923	QRT029J-R47	MF RESISTOR	0.47Ω 2W J
R924	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R930	QRL039J-473	OMF RESISTOR	47kΩ 3W J
⚠R932	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R934	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R935	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R951	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R953	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L002	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L003	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L101	QQLZ014-R82	COIL	0.82uH 100mA L
L421	QQL26AK-220Z	CHOKE COIL	22uH K
L521	QQR1138-001	CHOKE COIL	
L522	QQR1243-001	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L701	NQL092K-100X	COIL	10uH K
L702	NQL092K-100X	COIL	10uH K
L703	NQL092K-100X	COIL	10uH K
L704	NQL092K-100X	COIL	10uH K
L705	NQL092K-100X	COIL	10uH K
L706	NQL092K-100X	COIL	10uH K
L707	NQL092K-100X	COIL	10uH K
L708	NQL092K-100X	COIL	10uH K
L709	NQL092K-100X	COIL	10uH K
L710	NQL092K-100X	COIL	10uH K
L711	NQL092K-100X	COIL	10uH K
L712	NQL092K-100X	COIL	10uH K
L713	NQL092K-100X	COIL	10uH K
L714	NQL092K-100X	COIL	10uH K
L715	NQL092K-100X	COIL	10uH K
L716	NQL092K-100X	COIL	10uH K
L717	NQL092K-100X	COIL	10uH K
L951	QQLZ034-480	HEATER CHOKE	48uH
L952	QQL26AK-820Z	CHOKE COIL	82uH K
L954	QQL244J-5R6Z	COIL	5.6uH J
L972	QQL244J-5R6Z	COIL	5.6uH J
L973	QQL244J-5R6Z	COIL	5.6uH J
L975	QQL26AK-820Z	CHOKE COIL	82uH K
T521	QQR1229-001	DRIVE TRANSF	
⚠T921	QQS0267-001	SW TRANSF	
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER	
⚠CP650	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP954	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
J803	QNN0348-001	PIN JACK	VIDEO2 L R IN
J804	QNN0349-001	PIN JACK	OUTPUT
K107	QQR1114-001Z	FERRITE BEADS	
K702	QQR1113-001Z	FERRITE BEADS	
K901	QQR1114-001Z	FERRITE BEADS	
K902	QQR1113-001Z	FERRITE BEADS	
K921	QQR1114-001Z	FERRITE BEADS	
K922	QQR1113-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1114-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-001	EMI FILTER	
LC802	QQR1199-001	EMI FILTER	
LC803	QQR1199-001	EMI FILTER	
LC804	QQR1199-001	EMI FILTER	
⚠LF902	QQR1356-001	LINE FILTER	
SF101	QAX0663-001	SAW FILTER	
SF102	QAX0731-001	SAW FILTER	
TU001	QAU0383-001	TUNER	
X701	QAX0799-001Z	CRYSTAL	

CRT SOCKET P.W. BOARD ASS'Y (SCW-3001A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC351	TDA6107AJF/N1	IC	
Q203	KTC3199/YG/-T	TRANSISTOR	
Q204	KTC3199/YG/-T	TRANSISTOR	
Q206	KTA1267/YG/-T	TRANSISTOR	
Q208	2SA2005/DE/	POW TRANSISTOR	
Q209	2SC5511/DE/	POW TRANSISTOR	
Q374	2SA1530A/QR/-X	TRANSISTOR	
D201	MA111-X	SI DIODE	
D202	MA111-X	SI DIODE	
D203	RGP10J-5025-T3	SI DIODE	
D204	RGP10J-5025-T3	SI DIODE	
D350	MA8075/M/-X	Z DIODE	
D354	EU01N-T2	SI DIODE	
D355	EU01N-T2	SI DIODE	
D356	EU01N-T2	SI DIODE	
D357	EU01N-T2	SI DIODE	
D371	MA111-X	SI DIODE	
D372	MA111-X	SI DIODE	
C201	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C203	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C204	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C205	NCB31HK-561X	C CAPACITOR	560pF 50V K
C206	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C207	QCS31HJ-5R0Z	C CAPACITOR	5pF 50V J
C209	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C211	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C212	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C213	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C214	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C215	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C216	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C217	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C218	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C219	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C220	QCS32HJ-680Z	C CAPACITOR	68pF 500V J
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C359	QCZ0131-222	C CAPACITOR	2200pF 2kV K
C371	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R208	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R209	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R210	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R211	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R212	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R213	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R214	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
R219	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R220	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R221	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R222	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R223	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R224	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R225	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R226	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R227	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R228	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R229	QRE121J-121Y	C RESISTOR	120Ω 1/2W J
R232	QRL029J-391	OMF RESISTOR	390Ω 2W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R355	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R356	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R357	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRZ9023-1R2	FUSI RESISTOR	1.2Ω 2W J
R371	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R372	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R373	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R374	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R376	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R377	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
L351	QQL244J-5R6Z	COIL	5.6uH J
⚠FR201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
K201	CE41492-001Z	CHOKE COIL	
K202	CE41492-001Z	CHOKE COIL	
K203	CE41492-001Z	CHOKE COIL	
K205	CE41832-001	LEAD CORE	
K206	CE41832-001	LEAD CORE	
K208	QQR1113-001Z	FERRITE BEADS	
⚠SK351	QNZ0536-001	CRT SOCKET	

FRONT CONTROL P.W. BOARD ASS'Y (SCW-8001A-H2)

⚠Ref No.	Part No.	Part Name	Description Local
IC301	S9066-11	PHOTO CONDUCTOR	
IC481	LA6515	IC	
IC801	RPM7238-H5	IR DETECT UNIT	
Q481	2SC3928A/QR/-X	TRANSISTOR	
Q482	2SA1530A/QR/-X	TRANSISTOR	
Q955	2SC3928A/QR/-X	TRANSISTOR	
D801	LH22440-T16	LED	POWER
D803	MA8091/H/-X	Z DIODE	
D804	MA8091/H/-X	Z DIODE	
D805	MA8091/H/-X	Z DIODE	
D956	MA111-X	SI DIODE	
D957	MA111-X	SI DIODE	
C301	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C481	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C482	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C483	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C484	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C485	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C487	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C488	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C489	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C601	QETM1VM-108	E CAPACITOR	1000uF 35V M
C602	QETM1VM-108	E CAPACITOR	1000uF 35V M
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C804	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
C965	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R303	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R482	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R483	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R484	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R485	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R486	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R487	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R488	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R489	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R491	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R492	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R494	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R495	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R496	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R497	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R499	QRE121J-561Y	C RESISTOR	560Ω 1/2W J
R601	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R602	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R802	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R803	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R806	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R812	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R813	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R814	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R815	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R816	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
⚠R901	QRZ0111-474	C RESISTOR	470kΩ 1/2W K
R960	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R961	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
L401	QQL244K-820Z	PEAKING COIL	82uH K
⚠F901	QMF51E2-4R0J4	FUSE	4A AC250V
J801	QNS0155-001	3.5 JACK	HEADPHONE
J802	QNN0656-003	PIN JACK	VIDEO3 V IN
J803	QNN0656-002	PIN JACK	VIDEO3 L IN
J804	QNN0657-001	PIN JACK	VIDEO3 R IN
K401	QQR1114-001Z	FERRITE BEADS	
K403	QQR1114-001Z	FERRITE BEADS	
LC801	QQR1199-001	EMI FILTER	
⚠LF901	QQR1356-001	LINE FILTER	
⚠RY901	QSK0061-002	RELAY	
S801	QSW0619-003Z	TACT SWITCH	CH+
S802	QSW0619-003Z	TACT SWITCH	CH-
S803	QSW0619-003Z	TACT SWITCH	MENU
S804	QSW0619-003Z	TACT SWITCH	TV/VIDEO
S805	QSW0619-003Z	TACT SWITCH	VOL+
S806	QSW0619-003Z	TACT SWITCH	VOL-
⚠S901	QSW0750-001	PUSH SWITCH	POWER
TH901	QAD0145-2R3	P THERMISTOR	2.3Ω
⚠VA901	QAF0060-621	VARISTOR	620V
	LC41232-001A-H	EE HOLDER	
	CM36626-B01-H	LED HOLDER	

PRINTED WIRING BOARD PARTS LIST [AV-29WX14/S]

MAIN P.W. BOARD ASS'Y (SCW-1025A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC		
IC451	UPC358G2-XE	IC		
IC601	AN5277	IC		
IC701	TDA12027-ERAPF	IC(MCU)	(SERVICE)	
IC702	AT24C16-29VS24	IC	(SERVICE)	
IC921	STR-W6756-F5	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC974	MM1561JF-X	IC		
IC975	PQ050RDA1SZ	IC		
IC976	MM1561JF-X	IC		
Q101	2SC5083/L-P/-T	TRANSISTOR		
Q102	UN2212-X	DIGI TRANSISTOR		
Q103	UN2212-X	DIGI TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q461	2SD1267A/QP/	POW TRANSISTOR		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2142-YD	TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	DTC323TK-X	DIGI TRANSISTOR		
Q605	DTC323TK-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2212-X	DIGI TRANSISTOR		
Q611	UN2212-X	DIGI TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q703	2SA1530A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	DTC124ESA-T	DIGI TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	DTC323TK-X	DIGI TRANSISTOR		
Q804	DTC323TK-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q921	2SC3852A	POW TRANSISTOR		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
D101	1SS268-X	SI DIODE		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D422	MTZJ75-T2	Z DIODE		
D423	1N4003-T2	SI DIODE		
D451	MA8043/L/-X	Z DIODE		
D471	1SR124-400A-T2	SI DIODE		
D472	MA111-X	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	31DF6N-FC5	SI DIODE		
D523	RGP10J-5025-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	EU2-T3	SI DIODE		
D551	RGP10J-5025-T3	SI DIODE		
D552	RGP10J-5025-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	RGP10J-5025-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D604	MA8300/H/-X	Z DIODE		
D605	MA8300/H/-X	Z DIODE		
D607	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D801	MA8091/H/-X	Z DIODE		
D802	MA8091/H/-X	Z DIODE		
D803	MA8091/H/-X	Z DIODE		
D804	MA8091/H/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D901	GSIB460	BRIDGE DIODE		
D921	RGP10J-5025-T3	SI DIODE		
D922	1SS133-T2	SI DIODE		
D923	MA111-X	SI DIODE		
D924	MA8330/M/-X	Z DIODE		
D925	RGP10J-5025-T3	SI DIODE		
D926	RGP10M-5010-T3	SI DIODE		
D927	MA111-X	SI DIODE		
D928	MA8240/M/-X	Z DIODE		
D929	MA111-X	SI DIODE		
D930	MA8240/M/-X	Z DIODE		
D931	MA8062/M/-X	Z DIODE		
D932	MTZJ36A-T2	Z DIODE		
D933	MTZJ9.1C-T2	Z DIODE		
D934	MTZJ9.1C-T2	Z DIODE		
D935	MTZJ9.1C-T2	Z DIODE		
D936	1SS133-T2	SI DIODE		
D951	31DF6N-FC5	SI DIODE		
D952	FSF05A20	SI DIODE		
D953	RGP10J-5025-T3	SI DIODE		
D954	RGP10J-5025-T3	SI DIODE		
D955	FSF05A20	SI DIODE		
D957	MA8039/H/-X	Z DIODE		
D959	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D960	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C452	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C453	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description Local
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
C571	QETM2CM-227	E CAPACITOR	220uF 160V M
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C609	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C703	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K
C724	NCB21CK-105X	C CAPACITOR	1uF 16V K
C725	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1HM-227Z	E CAPACITOR	220uF 50V M
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C738	NCB21CK-105X	C CAPACITOR	1uF 16V K
C739	NCB21CK-105X	C CAPACITOR	1uF 16V K
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C769	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C771	MTZJ3.3A-T2	Z DIODE	
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K
C782	NCB21CK-105X	C CAPACITOR	1uF 16V K
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C784	MTZJ4.7B-T2	Z DIODE	
C785	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0633-337	E CAPACITOR	330uF 450V M
C915	QCZ0325-391	C CAPACITOR	390pF 2kV K
C917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C921	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C924	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C925	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C926	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J
C928	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J
C929	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C931	QCZ0364-102	C CAPACITOR	1000pF 2kV K
C940	QCZ0364-122	C CAPACITOR	1200pF 2kV K
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C949	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C951	QCZ0364-561	C CAPACITOR	560pF 2kV K
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C954	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C956	QEZ0203-227	E CAPACITOR	220uF 160V M
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C967	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C968	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C975	QETN1AM-477Z	E CAPACITOR	470uF 10V M
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C977	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C978	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C983	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C984	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R451	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R452	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R454	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R455	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R456	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R457	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R458	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R459	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R460	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R461	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R462	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R463	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J
R471	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R472	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R525	QRL039J-121	OMF RESISTOR	120Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R602	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R628	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R629	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R792	QRE123J-330X	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R902	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R922	QRZ0237-R18	UNF WW RESISTOR	0.18Ω 3W J
R923	QRT029J-R47	MF RESISTOR	0.47Ω 2W J
R924	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R930	QRL039J-473	OMF RESISTOR	47kΩ 3W J
⚠R932	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R934	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R935	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R951	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R953	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L002	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L003	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L101	QQLZ014-R82	COIL	0.82uH 100mA L
L421	QQL26AK-220Z	CHOKE COIL	22uH K
L521	QQR1138-001	CHOKE COIL	
L522	QQR1243-001	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L701	NQL092K-100X	COIL	10uH K
L702	NQL092K-100X	COIL	10uH K
L703	NQL092K-100X	COIL	10uH K
L704	NQL092K-100X	COIL	10uH K
L705	NQL092K-100X	COIL	10uH K
L706	NQL092K-100X	COIL	10uH K
L707	NQL092K-100X	COIL	10uH K
L708	NQL092K-100X	COIL	10uH K
L709	NQL092K-100X	COIL	10uH K
L710	NQL092K-100X	COIL	10uH K
L711	NQL092K-100X	COIL	10uH K
L712	NQL092K-100X	COIL	10uH K
L713	NQL092K-100X	COIL	10uH K
L714	NQL092K-100X	COIL	10uH K
L715	NQL092K-100X	COIL	10uH K
L716	NQL092K-100X	COIL	10uH K
L717	NQL092K-100X	COIL	10uH K
L951	QQLZ034-480	HEATER CHOKE	48uH
L952	QQL26AK-820Z	CHOKE COIL	82uH K
L954	QQL244J-5R6Z	COIL	5.6uH J
L972	QQL244J-5R6Z	COIL	5.6uH J
L973	QQL244J-5R6Z	COIL	5.6uH J
L975	QQL26AK-820Z	CHOKE COIL	82uH K
T521	QQR1229-001	DRIVE TRANSF	
⚠T921	QQS0267-001	SW TRANSF	
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER	
⚠CP650	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP954	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
J803	QNN0348-001	PIN JACK	VIDEO2 L R IN
J804	QNN0349-001	PIN JACK	OUTPUT
K107	QQR1114-001Z	FERRITE BEADS	
K702	QQR1113-001Z	FERRITE BEADS	
K901	QQR1114-001Z	FERRITE BEADS	
K902	QQR1113-001Z	FERRITE BEADS	
K921	QQR1114-001Z	FERRITE BEADS	
K922	QQR1113-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1114-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-001	EMI FILTER	
LC802	QQR1199-001	EMI FILTER	
LC803	QQR1199-001	EMI FILTER	
LC804	QQR1199-001	EMI FILTER	
⚠LF902	QQR1356-001	LINE FILTER	
SF101	QAX0663-001	SAW FILTER	
SF102	QAX0731-001	SAW FILTER	
TU001	QAU0383-001	TUNER	
X701	QAX0799-001Z	CRYSTAL	

CRT SOCKET P.W. BOARD ASS'Y (SCW-3001A-H2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCW-8001A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-29WX24/L]

MAIN P.W. BOARD ASS'Y (SCW-1068A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC		
IC451	UPC358G2-XE	IC		
IC601	AN5277	IC		
IC701	TDA12027-ERCMI	IC(MCU)	(SERVICE)	
IC702	AT24C16-29VS24	IC	(SERVICE)	
IC921	STR-W6756-F5	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC974	MM1561JF-X	IC		
IC975	PQ050RDA1SZ	IC		
IC976	MM1561JF-X	IC		
Q101	2SC5083/L-P/-T	TRANSISTOR		
Q102	UN2212-X	DIGI TRANSISTOR		
Q103	UN2212-X	DIGI TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q461	2SD1267A/QP/	POW TRANSISTOR		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2142-YD	TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	DTC323TK-X	DIGI TRANSISTOR		
Q605	DTC323TK-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2212-X	DIGI TRANSISTOR		
Q611	UN2212-X	DIGI TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q703	2SA1530A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	DTC124ESA-T	DIGI TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	DTC323TK-X	DIGI TRANSISTOR		
Q804	DTC323TK-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q921	2SC3852A	POW TRANSISTOR		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
D101	1SS268-X	SI DIODE		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D422	MTZJ75-T2	Z DIODE		
D423	1N4003-T2	SI DIODE		
D451	MA8043/L/-X	Z DIODE		
D471	1SR124-400A-T2	SI DIODE		
D472	MA111-X	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	31DF6N-FC5	SI DIODE		
D523	RGP10J-5025-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	EU2-T3	SI DIODE		
D551	RGP10J-5025-T3	SI DIODE		
D552	RGP10J-5025-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	RGP10J-5025-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D604	MA8300/H/-X	Z DIODE		
D605	MA8300/H/-X	Z DIODE		
D607	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D751	MTZJ9.1C-T2	Z DIODE		
D753	MTZJ9.1C-T2	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D801	MA8091/H/-X	Z DIODE		
D802	MA8091/H/-X	Z DIODE		
D803	MA8091/H/-X	Z DIODE		
D804	MA8091/H/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D813	MA8091/H/-X	Z DIODE		
D814	MTZJ9.1C-T2	Z DIODE		
D901	GSIB460	BRIDGE DIODE		
D921	RGP10J-5025-T3	SI DIODE		
D922	1SS133-T2	SI DIODE		
D923	MA111-X	SI DIODE		
D924	MA8330/M/-X	Z DIODE		
D925	RGP10J-5025-T3	SI DIODE		
D926	RGP10M-5010-T3	SI DIODE		
D927	MA111-X	SI DIODE		
D928	MA8240/M/-X	Z DIODE		
D929	MA111-X	SI DIODE		
D930	MA8240/M/-X	Z DIODE		
D931	MA8062/M/-X	Z DIODE		
D932	MTZJ36A-T2	Z DIODE		
D933	MTZJ9.1C-T2	Z DIODE		
D934	MTZJ9.1C-T2	Z DIODE		
D935	MTZJ9.1C-T2	Z DIODE		
D936	1SS133-T2	SI DIODE		
D951	31DF6N-FC5	SI DIODE		
D952	FSF05A20	SI DIODE		
D953	RGP10J-5025-T3	SI DIODE		
D954	RGP10J-5025-T3	SI DIODE		
D955	FSF05A20	SI DIODE		
D957	MA8039/H/-X	Z DIODE		
D959	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D960	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C452	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C453	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QETM2CM-227	E CAPACITOR	220uF 160V M	
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C609	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C703	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C724	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C725	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C730	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C738	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C739	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C769	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C771	MTZJ3.3A-T2	Z DIODE		
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C782	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C784	MTZJ4.7B-T2	Z DIODE		
C785	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
⚠C902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M	
C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C906	QEZ0633-337	E CAPACITOR	330uF 450V M	
C915	QCZ0325-391	C CAPACITOR	390pF 2kV K	
C917	QCB32HK-181Z	C CAPACITOR	180pF 500V K	
C921	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C924	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C925	QETN2AM-226Z	E CAPACITOR	22uF 100V M	
C926	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J	
C928	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	
C929	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
C931	QCZ0364-102	C CAPACITOR	1000pF 2kV K	
C940	QCZ0364-122	C CAPACITOR	1200pF 2kV K	
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C949	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C951	QCZ0364-561	C CAPACITOR	560pF 2kV K	
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C954	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C956	QEZ0203-227	E CAPACITOR	220uF 160V M	
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M	
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M	
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C967	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C968	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C975	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C977	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C978	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C983	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C984	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R451	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R452	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R454	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R455	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R456	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R457	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R458	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R459	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R460	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R461	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R462	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R463	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J
R471	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R472	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R525	QRL039J-121	OMF RESISTOR	120Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R602	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R628	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R629	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R792	QRE123J-330X	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K
R902	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R922	QRZ0237-R18	UNF WW RESISTOR	0.18Ω 3W J
R923	QRT029J-R47	MF RESISTOR	0.47Ω 2W J
R924	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R930	QRL039J-473	OMF RESISTOR	47kΩ 3W J
⚠R932	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R934	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R935	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R951	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R953	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
L002	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L003	QQL244J-4R7Z	INDUCTIOR	4.7uH J
L101	QQLZ014-R82	COIL	0.82uH 100mA L
L421	QQL26AK-220Z	CHOKE COIL	22uH K
L521	QQR1138-001	CHOKE COIL	
L522	QQR1243-001	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L701	NQL092K-100X	COIL	10uH K
L702	NQL092K-100X	COIL	10uH K
L703	NQL092K-100X	COIL	10uH K
L704	NQL092K-100X	COIL	10uH K
L705	NQL092K-100X	COIL	10uH K
L706	NQL092K-100X	COIL	10uH K
L707	NQL092K-100X	COIL	10uH K
L708	NQL092K-100X	COIL	10uH K
L709	NQL092K-100X	COIL	10uH K
L710	NQL092K-100X	COIL	10uH K
L711	NQL092K-100X	COIL	10uH K
L712	NQL092K-100X	COIL	10uH K
L713	NQL092K-100X	COIL	10uH K
L714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L715	NQL092K-100X	COIL	10uH K
L716	NQL092K-100X	COIL	10uH K
L717	NQL092K-100X	COIL	10uH K
L951	QQLZ034-480	HEATER CHOKE	48uH
L952	QQL26AK-820Z	CHOKE COIL	82uH K
L954	QQL244J-5R6Z	COIL	5.6uH J
L972	QQL244J-5R6Z	COIL	5.6uH J
L973	QQL244J-5R6Z	COIL	5.6uH J
L975	QQL26AK-820Z	CHOKE COIL	82uH K
T521	QQR1229-001	DRIVE TRANSF	
⚠T921	QQS0267-001	SW TRANSF	
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER	
⚠CP650	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP954	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A
J801	QNZ0454-002	PIN JACK	VIDEO1 IN
J802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
J803	QNN0348-001	PIN JACK	VIDEO2 L R IN
J804	QNN0349-001	PIN JACK	OUTPUT
K107	QQR1114-001Z	FERRITE BEADS	
K702	QQR1113-001Z	FERRITE BEADS	
K901	QQR1114-001Z	FERRITE BEADS	
K902	QQR1113-001Z	FERRITE BEADS	
K921	QQR1114-001Z	FERRITE BEADS	
K922	QQR1113-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1114-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-001	EMI FILTER	
LC802	QQR1199-001	EMI FILTER	
LC803	QQR1199-001	EMI FILTER	
LC804	QQR1199-001	EMI FILTER	
⚠LF902	QQR1356-001	LINE FILTER	
SF101	QAX0663-001	SAW FILTER	
SF102	QAX0731-001	SAW FILTER	
TU001	QAU0383-001	TUNER	
X701	QAX0799-001Z	CRYSTAL	

CRT SOCKET P.W. BOARD ASS'Y (SCW-3001A-H2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCW-8001A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-2954W/E]

MAIN P.W. BOARD ASS'Y (SCW-1013A-H2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC		
IC451	UPC358G2-XE	IC		
IC601	AN5277	IC		
IC701	TDA12027-ERU	IC(MCU)	(SERVICE)	
IC702	AT24C16-29VS24	IC	(SERVICE)	
IC921	STR-W6756-F5	IC		
IC951	SE135N	IC		
IC972	BA33BC0T	IC		
IC973	PQ120RDA1SZ	IC		
IC974	MM1561JF-X	IC		
IC975	PQ050RDA1SZ	IC		
IC976	MM1561JF-X	IC		
Q101	2SC5083/L-P/-T	TRANSISTOR		
Q102	UN2212-X	DIGI TRANSISTOR		
Q103	UN2212-X	DIGI TRANSISTOR		
Q341	2SA1530A/QR/-X	TRANSISTOR		
Q461	2SD1267A/QP/	POW TRANSISTOR		
Q521	BSN304-T	TRANSISTOR		
⚠Q522	TT2142-YD	TRANSISTOR		
Q571	2SA1208/ST/Z1-T	TRANSISTOR		
Q572	UN2212-X	DIGI TRANSISTOR		
Q601	2SA1530A/QR/-X	TRANSISTOR		
Q602	2SA1530A/QR/-X	TRANSISTOR		
Q603	DTC323TK-X	DIGI TRANSISTOR		
Q605	DTC323TK-X	DIGI TRANSISTOR		
Q607	2SC3928A/QR/-X	TRANSISTOR		
Q608	2SC3928A/QR/-X	TRANSISTOR		
Q609	UN2212-X	DIGI TRANSISTOR		
Q611	UN2212-X	DIGI TRANSISTOR		
Q702	2SC3928A/QR/-X	TRANSISTOR		
Q703	2SA1530A/QR/-X	TRANSISTOR		
Q704	2SC3928A/QR/-X	TRANSISTOR		
Q705	SSM3K02F-X	MOS FET		
Q706	SSM3K02F-X	MOS FET		
Q707	2SC3928A/QR/-X	TRANSISTOR		
Q708	2SA1530A/QR/-X	TRANSISTOR		
Q791	DTC124ESA-T	DIGI TRANSISTOR		
Q801	KTA1267/YG/-T	TRANSISTOR		
Q803	DTC323TK-X	DIGI TRANSISTOR		
Q804	DTC323TK-X	DIGI TRANSISTOR		
Q805	2SA1530A/QR/-X	TRANSISTOR		
Q921	2SC3852A	POW TRANSISTOR		
Q951	2SC3928A/QR/-X	TRANSISTOR		
Q952	2SC3928A/QR/-X	TRANSISTOR		
Q957	2SC3928A/QR/-X	TRANSISTOR		
Q958	2SA1013/RO/-T	TRANSISTOR		
D101	1SS268-X	SI DIODE		
D341	MA111-X	SI DIODE		
D342	MA111-X	SI DIODE		
D343	MA111-X	SI DIODE		
D345	MA111-X	SI DIODE		
D422	MTZJ75-T2	Z DIODE		
D423	1N4003-T2	SI DIODE		
D451	MA8043/L/-X	Z DIODE		
D471	1SR124-400A-T2	SI DIODE		
D472	MA111-X	SI DIODE		
D521	RH3G-F1	SI DIODE		
D522	31DF6N-FC5	SI DIODE		
D523	RGP10J-5025-T3	SI DIODE		
D524	MA8091/H/-X	Z DIODE		
D530	EU2-T3	SI DIODE		
D551	RGP10J-5025-T3	SI DIODE		
D552	RGP10J-5025-T3	SI DIODE		
D554	MA8051/L/-X	Z DIODE		
D571	MA8075/H/-X	Z DIODE		
D581	RGP10J-5025-T3	SI DIODE		
D601	MA111-X	SI DIODE		
D603	MA111-X	SI DIODE		
D604	MA8300/H/-X	Z DIODE		
D605	MA8300/H/-X	Z DIODE		
D607	MA111-X	SI DIODE		
D701	MA111-X	SI DIODE		
D702	MA8091/H/-X	Z DIODE		
D704	MA8091/H/-X	Z DIODE		
D706	MA8036-X	Z DIODE		
D707	MA111-X	SI DIODE		
D708	MA111-X	SI DIODE		
D709	MA111-X	SI DIODE		
D710	MA8091/H/-X	Z DIODE		
D791	MA8062/M/-X	Z DIODE		
D801	MA8091/H/-X	Z DIODE		
D802	MA8091/H/-X	Z DIODE		
D803	MA8091/H/-X	Z DIODE		
D804	MA8091/H/-X	Z DIODE		
D810	MA8091/H/-X	Z DIODE		
D811	MA8091/H/-X	Z DIODE		
D812	MA8091/H/-X	Z DIODE		
D901	GSIB460	BRIDGE DIODE		
D921	RGP10J-5025-T3	SI DIODE		
D922	1SS133-T2	SI DIODE		
D923	MA111-X	SI DIODE		
D924	MA8330/M/-X	Z DIODE		
D925	RGP10J-5025-T3	SI DIODE		
D926	RGP10M-5010-T3	SI DIODE		
D927	MA111-X	SI DIODE		
D928	MA8240/M/-X	Z DIODE		
D929	MA111-X	SI DIODE		
D930	MA8240/M/-X	Z DIODE		
D931	MA8062/M/-X	Z DIODE		
D932	MTZJ36A-T2	Z DIODE		
D933	MTZJ9.1C-T2	Z DIODE		
D934	MTZJ9.1C-T2	Z DIODE		
D935	MTZJ9.1C-T2	Z DIODE		
D936	1SS133-T2	SI DIODE		
D951	31DF6N-FC5	SI DIODE		
D952	FSF05A20	SI DIODE		
D953	RGP10J-5025-T3	SI DIODE		
D954	RGP10J-5025-T3	SI DIODE		
D955	FSF05A20	SI DIODE		
D957	MA8039/H/-X	Z DIODE		
D959	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D960	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D962	MA8330/M/-X	Z DIODE		
D970	MA8082/M/-X	Z DIODE		
D971	MA111-X	SI DIODE		
D972	1SR124-400A-T2	SI DIODE		
D973	MA111-X	SI DIODE		
D975	MA111-X	SI DIODE		
D977	MA111-X	SI DIODE		
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C422	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	
C423	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
C427	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	
C428	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
C431	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
C452	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C453	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
⚠C524	QFZ0196-202	MPP CAPACITOR	2000pF 1.5kV H	
C525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	
C526	QFZ0196-252	MPP CAPACITOR	2500pF 1.5kV H	
C527	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C528	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QEZ0195-475	BP E CAPACITOR	4.7uF 50V M	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C553	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QETM2CM-227	E CAPACITOR	220uF 160V M	
C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C582	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C609	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C703	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C724	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C725	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C730	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C738	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C739	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C769	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C771	MTZJ3.3A-T2	Z DIODE		
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C782	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C783	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C784	MTZJ4.7B-T2	Z DIODE		
C785	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C790	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
⚠C902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M	
C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C906	QEZ0633-337	E CAPACITOR	330uF 450V M	
C915	QCZ0325-391	C CAPACITOR	390pF 2kV K	
C917	QCB32HK-181Z	C CAPACITOR	180pF 500V K	
C921	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C924	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C925	QETN2AM-226Z	E CAPACITOR	22uF 100V M	
C926	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J	
C928	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	
C929	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
C931	QCZ0364-102	C CAPACITOR	1000pF 2kV K	
C940	QCZ0364-122	C CAPACITOR	1200pF 2kV K	
C945	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C949	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C951	QCZ0364-561	C CAPACITOR	560pF 2kV K	
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C954	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C956	QEZ0203-227	E CAPACITOR	220uF 160V M	
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C958	QETN1EM-337Z	E CAPACITOR	330uF 25V M	
C959	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M	
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C967	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C968	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C975	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C977	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C978	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C979	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C983	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C984	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C987	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
⚠C991	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C992	QCZ9079-471	C CAPACITOR	470pF AC250V K	
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R426	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R432	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J
R433	QRE121J-3R9Y	C RESISTOR	3.9Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R438	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R440	QRG01GJ-331	OMF RESISTOR	330Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R451	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R452	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R454	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R455	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R456	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R457	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R458	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R459	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R460	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R461	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R462	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R463	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R464	QRL039J-330	OMF RESISTOR	33Ω 3W J
R471	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R472	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
R524	QRL039J-121	OMF RESISTOR	120Ω 3W J
R525	QRL039J-121	OMF RESISTOR	120Ω 3W J
R527	QRL039J-393	OMF RESISTOR	39kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R551	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
⚠R552	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R571	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R572	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R573	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R574	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R575	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R602	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R628	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R629	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R718	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R722	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R725	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R730	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R739	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R740	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R774	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R775	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R792	QRE123J-330X	C RESISTOR	33Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R816	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R901	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	
R902	QRL039J-823	OMF RESISTOR	82kΩ 3W J	
R921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R922	QRZ0237-R18	UNF WW RESISTOR	0.18Ω 3W J	
R923	QRT029J-R47	MF RESISTOR	0.47Ω 2W J	
R924	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R930	QRL039J-473	OMF RESISTOR	47kΩ 3W J	
⚠R932	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J	
R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R934	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J	
R935	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J	
R951	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J	
R953	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R954	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	
R955	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R956	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R957	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R958	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R959	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R960	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J	
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J	
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R975	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R980	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K	
L001	QQL244K-8R2Z	PEAKING COIL	8.2uH K	
L002	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L003	QQL244J-4R7Z	INDUCTIOR	4.7uH J	
L101	QQLZ014-R82	COIL	0.82uH 100mA L	
L421	QQL26AK-220Z	CHOKE COIL	22uH K	
L521	QQR1138-001	CHOKE COIL		
L522	QQR1243-001	LINEARITY COIL		
L530	QQL244K-220Z	PEAKING COIL	22uH K	
L701	NQL092K-100X	COIL	10uH K	
L702	NQL092K-100X	COIL	10uH K	
L703	NQL092K-100X	COIL	10uH K	
L704	NQL092K-100X	COIL	10uH K	
L705	NQL092K-100X	COIL	10uH K	
L706	NQL092K-100X	COIL	10uH K	
L707	NQL092K-100X	COIL	10uH K	
L708	NQL092K-100X	COIL	10uH K	
L709	NQL092K-100X	COIL	10uH K	
L710	NQL092K-100X	COIL	10uH K	
L711	NQL092K-100X	COIL	10uH K	
L712	NQL092K-100X	COIL	10uH K	
L713	NQL092K-100X	COIL	10uH K	
L714	NQL092K-100X	COIL	10uH K	
L715	NQL092K-100X	COIL	10uH K	
L716	NQL092K-100X	COIL	10uH K	
L717	NQL092K-100X	COIL	10uH K	
L951	QQLZ034-480	HEATER CHOKE	48uH	
L952	QQL26AK-820Z	CHOKE COIL	82uH K	
L954	QQL244J-5R6Z	COIL	5.6uH J	
L972	QQL244J-5R6Z	COIL	5.6uH J	
L973	QQL244J-5R6Z	COIL	5.6uH J	
L975	QQL26AK-820Z	CHOKE COIL	82uH K	
T521	QQR1229-001	DRIVE TRANSF		
⚠T921	QQS0267-001	SW TRANSF		
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER		
⚠CP650	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP954	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A	
J801	QNZ0454-002	PIN JACK	VIDEO1 IN	
J802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN	
J803	QNN0348-001	PIN JACK	VIDEO2 L R IN	
J804	QNN0349-001	PIN JACK	OUTPUT	
K107	QQR1114-001Z	FERRITE BEADS		
K702	QQR1113-001Z	FERRITE BEADS		
K901	QQR1114-001Z	FERRITE BEADS		
K902	QQR1113-001Z	FERRITE BEADS		
K921	QQR1114-001Z	FERRITE BEADS		
K922	QQR1113-001Z	FERRITE BEADS		
K951	QQR1114-001Z	FERRITE BEADS		
K952	QQR1114-001Z	FERRITE BEADS		
K953	QQR1113-001Z	FERRITE BEADS		
K954	QQR1113-001Z	FERRITE BEADS		
K955	QQR1113-001Z	FERRITE BEADS		
LC801	QQR1199-001	EMI FILTER		
LC802	QQR1199-001	EMI FILTER		
LC803	QQR1199-001	EMI FILTER		
LC804	QQR1199-001	EMI FILTER		
⚠LF902	QQR1356-001	LINE FILTER		
SF101	QAX0663-001	SAW FILTER		
SF102	QAX0731-001	SAW FILTER		
TU001	QAU0383-001	TUNER		
X701	QAX0799-001Z	CRYSTAL		

CRT SOCKET P.W. BOARD ASS'Y (SCW-3001A-H2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

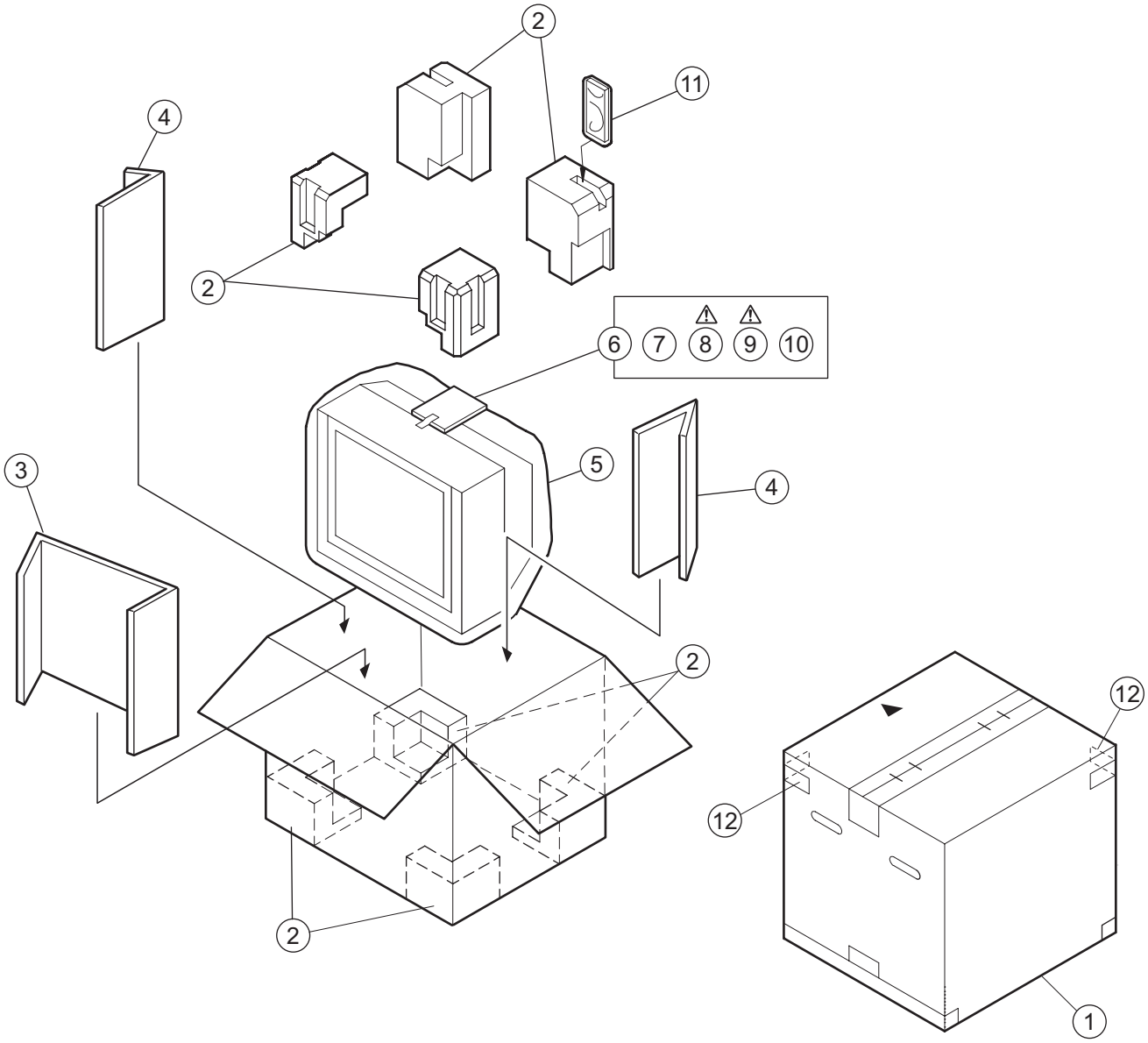
FRONT CONTROL P.W. BOARD ASS'Y (SCW-8001A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

REMOTE CONTROL UNIT PARTS LIST (RM-C1281-2H)

⚠Ref No.	Part No.	Part Name	Description	Local
	R25-8566	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10282-018A-H	PACKING CASE		AV-29WX14/G
	1	GG10044-096A-H	PACKING CASE		AV-29WX14/S,AV-29WX24/L,AV-2954W/E
	2	GG10193-001E-H	CUSHION ASS'Y	8pcs in 1set	
	3	GG20011-008A-H	SUPPORT PAD		AV-29WX14/S,AV-29WX24/L,AV-2954W/E
	4	GG20011-009A-H	SUPPORT PAD	(x2)	AV-29WX14/S,AV-29WX24/L,AV-2954W/E
	5	GG30097-004A-H	POLY BAG		
	6	GG30096-001A-H	POLY BAG		
	7	----------	BATTERY	AA/R6 (x2)	
⚠	8	GGT0045-001C-H	INST BOOK		AV-29WX14/G,AV-29WX14/S,AV-29WX24/L
⚠	8	GGT0050-001C-H	INST BOOK		AV-2954W/E
⚠	9	GGT0046-001B-H	DIGEST MANUAL		AV-29WX14/G,AV-29WX14/S
	10	BT-54012-4H	WARRANTY CARD		AV-2954W/E
	11	RM-C1281-2H	REMOCON UNIT		
	12	GG20025-005A-H	CORNER LABEL	(x2)	

JVC

COLOUR TELEVISION

EQUALIZER • CINEMA SURROUND • COMPONENT INPUT

AV-29LS24
AV-29LX14
AV-29VS24
AV-29VX54
AV-29VX74
AV-29WX14
AV-29WX24
AV-25LS24
AV-25LX14
AV-25VS24
AV-25VX54
AV-25VX74
AV-21CS24
AV-21CX14
AV-21DX14
AV-21LX14
AV-21VS24
AV-21VX14
AV-21VX54
AV-21VX74
AV-21WS24
AV-21WX14
AV-21YX14

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INSTRUCTIONS

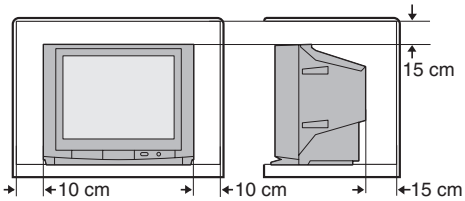
GGT0045-001B-H

Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

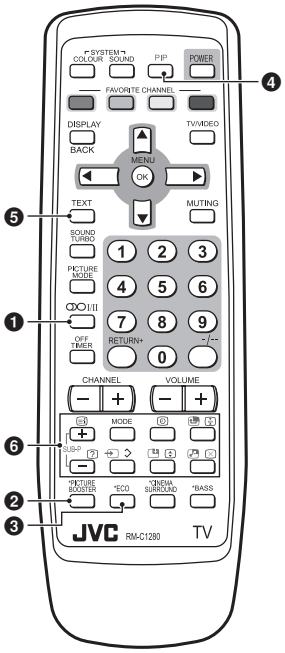
1 Operate only from the power source indicated on the rear of the TV.
2 Avoid damaging the power cord and mains plug. When unplugging the TV, grasp the mains plug. Do not pull on the power cord.
3 Never block or cover the ventilation openings.
Never install the TV where good ventilation is unattainable.
When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.



4 Do not allow objects or liquid into the cabinet openings.
5 In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.
6 The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.
7 If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.
8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: <AV-21WS24/AV-21WX14/AV-21YX14 only>
A REMOVABLE PLASTIC COVER IS FIXED TO THE TELEVISION'S FRONT AUDIO/VIDEO CONNECTOR. TO PREVENT THIS COVER FROM BEING ACCIDENTALLY SWALLOWED BY BABIES OR CHILDREN, REMOVE IT FROM THE TELEVISION AND STORE IT IN A SAFE PLACE. IF THE COVER IS SWALLOWED SEEK THE ADVICE OF A DOCTOR IMMEDIATELY.

Knowing your TV's features



Main features

PIP (Picture in Picture)	You can view two different sources (e.g. TV programme and VCR sources) at the same time.
TELETEXT	You can view teletext programmes which are broadcasted by some TV channels. Teletext programme is an information in text form.
A2/NICAM (STEREO / I•II)	You can listen to the stereo sound or bilingual sound from TV programme broadcasting by A2 or NICAM Sound-multiplex system.
FAVORITE CH (Channel)	You can register up to four favorite channels for quick recall with one press.
AI ECO	TV detects the brightness of your room and automatically adjust the picture brightness to a suitable level for a better eye care.
AI VOLUME	TV adjusts the volume automatically to the same level for all TV channels to avoid sudden change of the volume when selecting different TV channel.

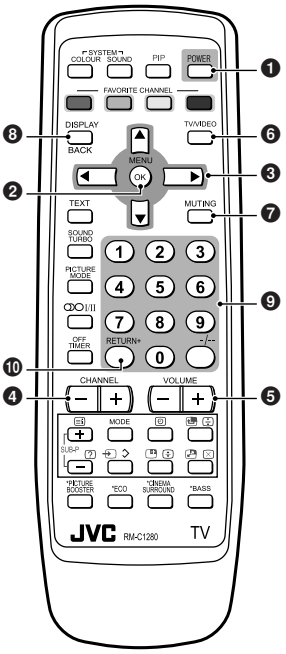
Confirm your TV's functions

Some functions written in this instruction manual may not be available for your TV.
Please see the chart below and check the functions that are equipped for your TV's model number. The model number is indicated at the rear of your TV. When you press a button concerned to a function that is not available for your TV, it does not work and the logo "Ø" appears on the screen. For a function that is not available for your TV, it is not displayed in the menu.

No.	Function \ Model No.	AV-29LX14	AV-29WX14	AV-25LX14 AV-21LX14	AV-21VX14 AV-21WX14	AV-29VX54	AV-25VX54 AV-21VX54	AV-29WX24	AV-29LS24	AV-29VS24	AV-25LS24	AV-21CS24	AV-25VS24 AV-21WS24 AV-21VS24	AV-29VX74	AV-25VX74 AV-21VX74	AV-21CX14	AV-21DX14	AV-21YX14
❶	I/II (STEREO/I•II)	–	–	–	–	–	–	–	○	○	○	○	○	–	–	–	–	–
❷	*PICTURE BOOSTER	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○
❸	*ECO	–	○	–	○	○	○	○	–	○	–	–	○	○	○	–	–	–
❹,❻	PIP control buttons (Green label)	–	–	–	–	○	○	–	–	–	–	–	–	○	○	–	–	–
❺,❻	TELETEXT control buttons (Black label)	–	–	–	–	–	–	○	○	○	○	○	○	○	○	–	–	–
–	PICTURE TILT	○	○	–	–	○	–	○	○	○	–	–	–	○	–	–	–	–
–	COMPRESS (16:9)	○	○	○	○	○	○	○	○	○	○	–	○	○	○	–	○	–

Remote control buttons and basic functions

No.	Press	To
❶	POWER	Turn on or off the TV from standby mode.
❷	MENU/OK	Display menu and confirm selected function.
❸	▲ / ▼ / ◄ / ►	Select and adjust menu function.
❹	CHANNEL -/+	Select the desired channel number.
❺	VOLUME -/+	Adjust the volume level.
❻	TV/VIDEO	Select TV or video terminal input.
❼	MUTING	Turn off the volume. Press this button again to resume the volume.
❽	DISPLAY	Display the programme number or video terminal number, stereo/bilingual broadcast system and PR list (channel list) on the screen. You can select the channel using the PR list. **1** Press the DISPLAY button once to display the PR list. **2** Press ▲ / ▼ / ◄ / ► buttons to choose a channel, then press the MENU/OK button. You can confirm the favorite channels in the PR list. The channels set to favorite channels are indicated with coloured mark.
❾	0~9, -/--	Select the programme number. For two digits programme number, press -/--, then press the number button.
❿	RETURN+	a) Return to the frequently view channel with one touch. **1** Choose the channel you want to register. **2** Press and hold RETURN+ button until “RETURN PLUS PROGRAMMED!” appears. To cancel, press and hold RETURN+ button until “RETURN PLUS CANCELED!” appears. b) Return to the previously viewed channel, if you have not set or have cancelled the Return channel as above.



Remote control buttons and basic functions (continued)

How to operate menus and menus locations

To	Operation	Note
Display the MENU	Press the MENU/OK button ❷.	To exit the MENU, press the DISPLAY button ❽ or choose EXIT menu.
Display the top menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	Press ▼ button ❸ to display the next page for more functions.
Display the 2nd menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	
Display the 3rd menu	Press ▲/▼ buttons ❸ to choose a menu title. Then press MENU/OK button ❷.	
Return to the previous menu	Press the DISPLAY button ❽.	–
Choose the setting of a function	Press ▲/▼ buttons ❸ to choose a function. Then press the ◄/► buttons ❸ to change the setting.	Press the MENU/OK button ❷ to exit from the menu.
Adjust the effect level of a function	Press ▲/▼ buttons ❸ to choose a function. Then press the ◄/► buttons ❸ to adjust the effect level.	
Display the sub menu of a function.	Press the ▲/▼ buttons ❸ to choose a function. Then press MENU/OK button ❷ to display the sub menu.	–

The following chart shows locations of functions in menus. In this manual, location of a function is described as follows:

(MENU) ➔ (Top menu) ➔ (2nd menu)

(MENU) ➔ (Top menu) ➔ (2nd menu) ➔ (3rd menu)

Note: Some functions have the 4th menus as the sub-menus.

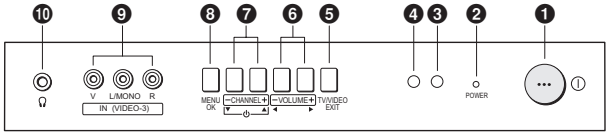
	Top menu	2nd menu	Location	3rd menu	Location
MENU	INPUT	EXT. INPUT	P.18	–	–
		DISPLAY	P.18	–	–
	PICTURE * If you want to adjust PICTURE SETTING menu, you must set PICTURE MODE menu to USER.	PICTURE MODE	P.9	–	–
		PICTURE SETTING	P.10	–	–
		WHITE BALANCE	P.10	–	–
		PICTURE FEATURES	–	VNR	P.17
				FAVORITE CH SETTING	P.16
				VIDEO SETTING	P.16
				COLOUR SYSTEM	P.9
				PICTURE BOOSTER	P.10
				COMPRESS (16:9)	P.11
				PICTURE TILT	P.11
	SOUND * If you want to adjust EQUALIZER menu, you must set SOUND MODE menu to USER.	STEREO/I•II	P.15	–	–
		AI VOLUME	P.15	–	–
		SOUND MODE	P.14	–	–
		EQUALIZER	P.15	–	–
		BALANCE	P.14	–	–
		SOUND TURBO	P.14	–	–
		CINEMA SURROUND	P.15	–	–
	FEATURES	OFF TIMER	P.17	–	–
		CHILD LOCK	P.17	–	–
		AI ECO SENSOR	P.11	–	–
		PIP	–	PIP,SUB INPUT,SWAP	P.12
	INSTALL	AUTO PROGRAM	P.19	–	–
		EDIT/MANUAL	P.19	DELETE, MOVE, MANUAL, INSERT	P.19-P.20
		LANGUAGE	P.17	LANGUAGE	P.17
		BLUE BACK	P.11	–	–
		AUTO SHUTOFF	P.18	–	–
		VIDEO-2 SETTING	P.18	–	–
		AI ECO DISPLAY	P.11	–	–
		TEXT LANGUAGE	P.13	TEXT LANGUAGE	P.13
	EXIT	–	–	–	–

TV buttons and functions

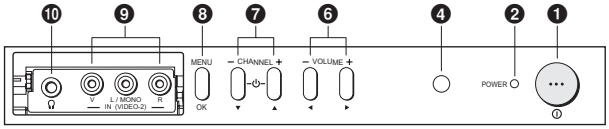
The illustrations shown below is for AV-29VS24 and AV-21CS24 only, which are used for explanation purpose.
Your TV may not look exactly the same as illustrated.

Front of the TV

AV-29VS24

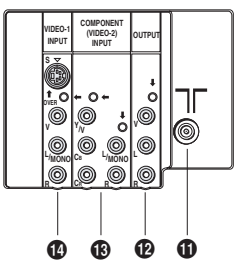


AV-21CS24

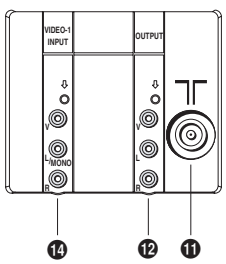


Rear of the TV

AV-29VS24



AV-21CS24



No.	Button/terminal	Description	Page
❶	⏻ (main power)	Press to turn on or turn off the TV's main power.	–
❷	POWER lamp	Indicate the TV is being turned on or off. No colour : TV's main power is being turned off. Red : TV's main power is being turned on. Note: When you turn off the power switch while TV is in standby mode, the light of power lamp will be off in 10 -15 seconds.	–
❸	ECO sensor		–
❹	Remote control sensor		–
❺	TV/VIDEO	Press to select TV or video mode.	–
❻	VOLUME -/+	Press to adjust the volume level.	–
❼	CHANNEL -/+	Press to select the desired channel.	–
❽	MENU	Press to display the menu.	–
❾	IN (VIDEO-3)	Video and audio input jacks for VIDEO-3 mode.	22
	IN (VIDEO-2)	Video and audio input jacks for VIDEO-2 mode.	22
❿	🎧	Headphone jack.	22
⓫	⊤	Aerial socket.	7
⓬	OUTPUT	Video and audio output jacks. (The component video signal cannot be output.)	22
⓭	COMPONENT (VIDEO-2) INPUT	Video or component video, and audio input jacks for VIDEO-2 mode. You can select the input signal by setting the "VIDEO-2 SETTING" function (see page 18).	22
⓮	VIDEO-1 INPUT	Video or S-VIDEO, and audio input jacks for VIDEO-1 mode	7

How to operate the menus with the TV button

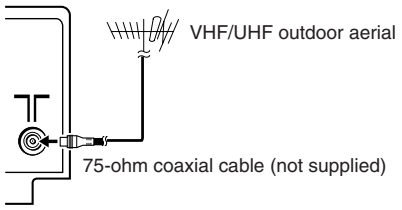
TV button	Work as same as the button on the remote control unit	Note
MENU	MENU/OK button	To display main menu and exit menu after finish setting.
CHANNEL -/+	▲/▼ button	To select menu function.
VOLUME -/+	◄/► button	To adjust the desired function.

Setting up your TV

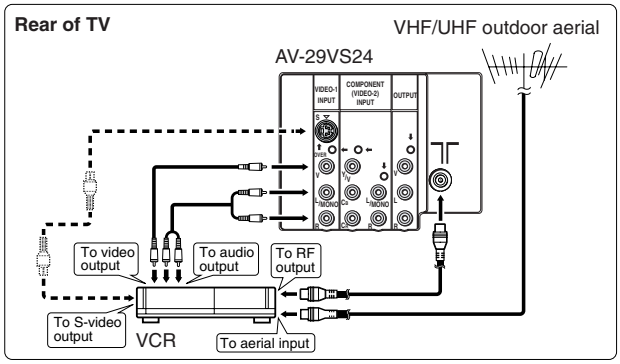
CAUTION

- Turn off the equipment including the TV before connecting.

1 Connecting the aerial cable.

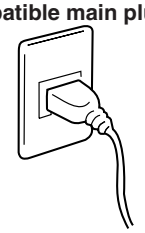


If you connect a VCR, connect the aerial output jack of your VCR and the aerial jack on the TV with the aerial cable. Then connect the output jacks of your VCR and the VIDEO-1 input jacks of the TV with the video cable (or S-VIDEO cable if available) and audio cables. For details, see the manual of your VCR.



The illustration shown is just a sample. It may not be same as your TV.

2 Connecting the compatible main plug to the AC outlet.



3 Inserting batteries into the remote control.

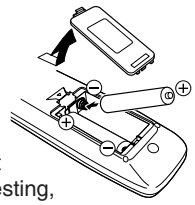
Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



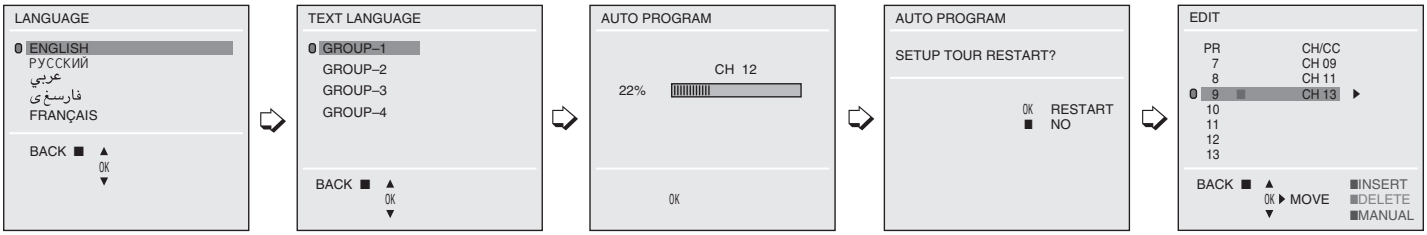
4 Turn on the TV by pressing the main power button.

JVC logo appears on the screen.

Setting up your TV (continued)

5 Making the initial settings

Set up your TV by pressing any button except POWER button, then operate the TV menu by following the steps as below:



- Press ▲/▼ button to select your desired language, then press MENU/OK button.
- Press ▲/▼ button to select your desired Teletext language group. For details, see page 13. (For CS24/LS24/ VS24/VX74/WS24/ WX24 series only)
- TV will start searching for the channels.

  To stop AUTO PROGRAM, press MENU/OK button.
- Press the red button to cancel the SETUP TOUR RESTART function. If you want to make initial settings again when the next time you turn on the TV, press the MENU/OK button to activate the SETUP TOUR RESTART function.
- To complete the initial setting, press the MENU/OK button. To edit the channel list, see page 19.

If the JVC logo does not appear, use LANGUAGE, TEXT LANGUAGE, and AUTO PROGRAM functions to make the initial settings. Those functions are located in the INSTALL menu.

If the JVC logo appears, although you had made the initial settings, press the TV/VIDEO button to exit from initial settings.

Basic setting for picture

COLOUR SYSTEM

You can select the appropriate colour system when the picture is not clear or no colour appears.
Press the COLOUR SYSTEM button to select a setting.

AUTO → PAL → SECAM → NTSC3.58
↑ NTSC4.43 ←

To operate this function with a menu:

✻ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (COLOUR SYSTEM)

For the colour system in each country or region, see the table below:

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL
	China, Vietnam, etc.	PAL
	Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
Europe	Russia, etc.	SECAM
	Czech Republic, Poland, etc.	PAL
	Germany, Holland, Belgium, etc.	PAL
	UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
Africa	Republic of South Africa, etc.	PAL
	Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

PICTURE MODE

You can choose the desired picture setting with one-touch.
Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT*)

*TINT can only be adjusted in NTSC system.

To operate this function with a menu:

✻ (MENU) ➔ (PICTURE menu) ➔ (PICTURE MODE)

To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

✻ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Adjusting the picture – USER

You can adjust the desired picture setting when selecting USER in PICTURE MODE.

1 Select the USER in PICTURE MODE under PICTURE menu.
✻ (MENU) ➔ (PICTURE menu) ➔ (PICTURE MODE) ➔ (USER)

2 Select the PICTURE SETTING in PICTURE menu, then adjust the setting.
✻ (MENU) ➔ (PICTURE menu) ➔ (PICTURE SETTING)

CONTRAST	◄ : Lower contrast	► : Higher contrast
BRIGHT	◄ : Darker	► : Brighter
SHARP	◄ : Softer	► : Higher
COLOUR	◄ : Lighter	► : Deeper
TINT*	◄ : Reddish	► : Greenish

*TINT can only be adjusted in NTSC system.

PICTURE BOOSTER

You can improve picture clarity when the picture is unclear due to the low signal reception.
Press the PICTURE BOOSTER button to select the desired mode.

HIGH	Perform at maximum level.
LOW	Perform at minimum level.
OFF	Cancel the function

To operate this function with a menu:
✻ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (PICTURE BOOSTER)

WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.
Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.
✻ (MENU) ➔ (PICTURE menu) ➔ (WHITE BALANCE)

NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

✻ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Advanced setting for picture

AI ECO SENSOR (ECO)

You can adjust TV screen contrast according to the brightness of your room.
Press the ECO button to select the desired mode.

1	Mild contrast (recommended).
2	Even contrast.
OFF	Cancel the function.

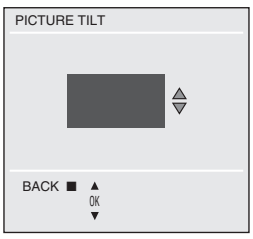
To operate this function with a menu:
✳ (MENU) ➔ (FEATURES menu) ➔ (AI ECO SENSOR)

You can display the graphic of AI ECO SENSOR on the screen.
Select the AI ECO DISPLAY in the INSTALL menu, then choose ON or OFF.
✳ (MENU) ➔ (INSTALL menu) ➔ (AI ECO DISPLAY)

Correcting the Slanting Picture (PICTURE TILT)

You can correct the picture tilt caused by the earth's magnetic force.

1 Select the PICTURE TILT in the PICTURE FEATURES menu under PICTURE menu, then press MENU/OK button.
✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (PICTURE TILT)
The following display appears.



2 Press the ▲/▼ buttons until the picture become level. Then press the MENU/OK button.

COMPRESS (16:9)

You can convert a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).
Select the COMPRESS (16:9) in the PICTURE FEATURES menu under PICTURE menu, then choose ON or OFF.
✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (COMPRESS (16:9))

BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

Select the BLUE BACK in the INSTALL menu, then choose ON or OFF.
✳ (MENU) ➔ (INSTALL menu) ➔ (BLUE BACK)

If you wish to continue viewing the poor picture, cancel the BLUE BACK function.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

Original features for picture

PIP

You can display a sub picture on the screen.
Press the PIP operation buttons to display and change the sub picture setting.

PIP	Display the sub picture. To cancel, press the PIP button again. **Notes:** • You can hear the sound from the main picture only. • Main picture and sub picture will use different input sources, which are TV and VIDEO mode. When the same input source are selected, the sub picture input source will change as follows: Main picture / Sub picture TV / VIDEO-1 → VIDEO-2 → VIDEO-3 VIDEO-1 / TV → VIDEO-2 → VIDEO-3 VIDEO-2 / TV → VIDEO-1 → VIDEO-3 VIDEO-3 / TV → VIDEO-1 → VIDEO-2
SUB-P -/+	Select the desired channel for sub picture.
(Input)	Select the input source for the sub picture.
(Swap)	Swap between the main picture and sub picture.
(Position)	Change the sub picture position. Each time you press on (Position) button, the sub picture position will change as follows: lower right → lower left → upper left → upper right → lower right
(Freeze)	Freeze the sub picture to be still.

To operate this function with a menu:
✳ (MENU) ➔ (FEATURES menu) ➔ (PIP)

When VIDEO-2 is set to component, you can't select VIDEO-2 for sub picture.

When VIDEO-2 is set to component, if the input source of main picture is set to VIDEO-2 with component, PIP button is disabled and sub picture can't be displayed.

TELETEXT

You can watch the Teletext broadcast channel with TEXT function.

1 Press the TEXT button to select the desired mode as follows:

TV mode → TEXT mode → MIX mode → TV mode

2 Press the CHANNEL -/+ buttons, number buttons or colour buttons to select other Teletext pages.

3 Press TEXT or TV/VIDEO button to return to TV mode.

You can also operate the teletext using the following buttons:

(Hold)	Hold a teletext page. The (Hold) are displayed at the top left of the screen. To cancel, press (Hold) button again.
(Reveal)	Display the hidden text (e.g. answers to a quiz). To cancel, press (Reveal) button again.
(Size)	Enlarge the teletext display.
(Index)	Return to the index page instantly.
(Cancel)	Watch TV programme while waiting for a teletext page. When the teletext page is found, a page number appears at the upper left of the screen. Press (Cancel) to view the teletext page.
(Sub-page)	Operate the (Sub-page) function. Sub-page numbers are displayed at the left of the screen. To cancel sub-page function, press (Sub-page) button again.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

Original features for picture (continued)

Using the List mode

You can store and recall the favorite teletext pages in memory using the colour buttons.

1. In TEXT mode, press the MODE button to enter the List mode.
2. Press a colour button, then press the number buttons to enter the page number.
3. Press and hold down the ◇ (Store) button.
   The page number is blinking white to indicate that they are stored in memory.
4. To store other favorite teletext pages, repeat Step 2 to 3.

To recall the favorite teletext page, press the MODE button, then press the colour button.
To exit the List mode, press the MODE button again.
When viewing teletext programme, menu operations are not available.
If characters on a teletext programme do not appear properly, change the TEXT LANGUAGE setting.

TEXT LANGUAGE

You can set the Teletext language group that corresponds to the programmes.
Select TEXT LANGUAGE in the INSTALL menu, then choose the desired language group.

✳ (MENU) ➔ (INSTALL menu) ➔ (TEXT LANGUAGE)

GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
GROUP-4	English, French, Turkish, Arabic, Iranian

Depending on the broadcast, the language set may not display properly.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Basic setting for sound

SOUND SYSTEM

You can select an appropriate sound system when abnormal sound occurs even when the picture appears normally.
Press the SOUND SYSTEM button to select a setting.

→ B/G → I → D/K → M →

This function is not available in video mode.
For the sound system in each country or region, see the table below:

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G
	China, Vietnam, etc.	D/K
	Hong Kong, etc.	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G
	Philippines, Taiwan, Myanmar, etc.	M
Europe	Russia, etc.	D/K
	Czech Republic, Poland, etc.	D/K
	Germany, Holland, Belgium, etc.	B/G
	UK, etc.	I
Oceania	Australia, New Zealand, etc.	B/G
Africa	Republic of South Africa, etc.	I
	Nigeria, etc.	B/G
	Egypt, Morocco, etc.	B/G

SOUND MODE

You can choose the desired sound setting.
Select the SOUND MODE in SOUND menu, then choose the setting.

✻ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE)

USER	You can change this sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (0.1, 0.3, 1.0, 3.0, 8.0KHz). For details, see “EQUALIZER” on page 15.
DYNAMIC	Emphasize on both vocal sound and music.
MUSIC	Emphasize on music effect.
NEWS	Emphasize on vocal sound.

BALANCE

You can adjust the volume balance between the left and right speakers.
Select the BALANCE in SOUND menu, then adjust the setting.

✻ (MENU) ➔ (SOUND menu) ➔ (BALANCE)

SOUND TURBO

You can set the sound frequency to emphasize the low and high frequency levels.

Press the SOUND TURBO to select ON or OFF.
To operate this function with a menu:

✻ (MENU) ➔ (SOUND menu) ➔ (SOUND TURBO)

✻ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Advanced setting for sound

CINEMA SURROUND

You can enjoy an enhanced sound for wider audience.
Press the CINEMA SURROUND button to select a setting.

OFF	Cancel the function.
LOW	Listen to sound with less wider audience effect.
HIGH	Listen to sound with more wider audience effect.
MONO	Listen to mono sound with stereo effect.

To operate this function with a menu:

✻ (MENU) ➔ (SOUND menu) ➔ (CINEMA SURROUND)

If slight volume distortion occurs when you select HIGH mode, change the setting to LOW mode. The CINEMA SURROUND effect will be less noticeable.

STEREO / I-II (I/II)

You can enjoy the stereo and bilingual broadcasted programmes.
Press the I/II button to select the desired mode.

	Select stereo sound.
	Select monaural sound.
I	Select bilingual I (sub I).
II	Select bilingual II (sub II).
MONO	Cancels the Multi Sound function, and the sound becomes monaural.

This function is not available in video mode.
To operate this function with a menu:

✻ (MENU) ➔ (SOUND menu) ➔ (STEREO / I-II)

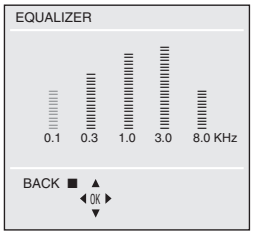
EQUALIZER

You can adjust the sound frequencies when selecting USER mode in SOUND MODE.

1 Select the USER in SOUND MODE under SOUND menu.
✻ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE) ➔ (USER)

2 Select the EQUALIZER in SOUND menu.
✻ (MENU) ➔ (SOUND menu) ➔ (EQUALIZER)

The following display appears.



3 Select and adjust the desired frequencies.

4 Press the MENU/OK button to exit the menu.

Adjust high frequency will affect higher pitch sound and vice versa.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically.
Select the AI VOLUME in SOUND menu, then choose ON or OFF.

✻ (MENU) ➔ (SOUND menu) ➔ (AI VOLUME)

✻ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

Favorite channel and video setting

To register the favorite channel

You can register and recall 4 favorite channels by using the colour buttons (red, green, yellow, blue).

1 In TV mode, select a TV channel (PR01-99) you desired to register.

2 Press and hold a colour button for 3 seconds or more.
"FAVORITE CHANNEL ■ PROGRAMMED" appears on the screen and current channel is registered.

3 To register other favorite channels, repeat Step 1 to 2.

To recall the favorite channel, press the colour button.
When the TV is in Text mode, Picture in Picture or menu mode, favorite channel function is not available.

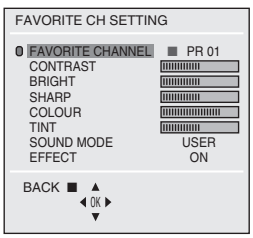
To adjust favorite channel setting (FAVORITE CH SETTING)

You can adjust the picture and sound settings for the favorite channels.

1 Display the PICTURE menu and select FAVORITE CH SETTING in PICTURE FEATURES menu.
✳(MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (FAVORITE CH SETTING)

2 Select FAVORITE CHANNEL in FAVORITE CH SETTING menu, then choose the desired favorite channel.
✳(FAVORITE CH SETTING) ➔ (FAVORITE CHANNEL)

3 Select EFFECT, then press ◄/► button to choose ON.
To cancel the settings, choose OFF.



4 Select the desired item that you wish to adjust.
CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR ↔ SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT

5 Press the MENU/OK button to exit the menu.

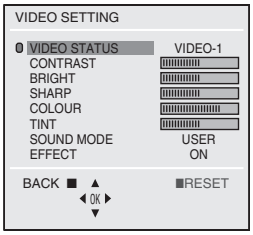
To adjust the video setting (VIDEO SETTING)

You can adjust the picture and sound settings for video inputs.

1 Display the PICTURE menu and select VIDEO SETTING in PICTURE FEATURES menu.
✳(MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (VIDEO SETTING)

2 Select VIDEO STATUS in VIDEO SETTING menu, then choose the desired video input.
✳(VIDEO SETTING) ➔ (VIDEO STATUS)

3 Select EFFECT, then press ◄/► button to choose ON.
To cancel the settings, choose OFF.



4 Select the desired item that you wish to adjust.
CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR ↔ SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT

5 Press the MENU/OK button to exit the menu.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

Customized setting

VNR

You can reduce the noise.
Select the VNR in the PICTURE FEATURES menu under PICTURE menu, then choose a setting of VNR function.

✳ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (VNR)

OFF	VNR is turned off.
AUTO	Effect of VNR is automatically controlled.
MIN	Effect of VNR becomes minimum level.
MAX	Effect of VNR becomes maximum level.

If you select MAX, the picture becomes softer even if the original picture is sharp.

LANGUAGE

You can choose your desired on screen display language.
Select the LANGUAGE in the INSTALL menu, then choose a language.

✳ (MENU) ➔ (INSTALL menu) ➔ (LANGUAGE)

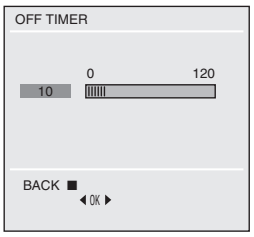
CHILD LOCK

You can disable the front control buttons of the TV.
Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.

✳ (MENU) ➔ (FEATURES menu) ➔ (CHILD LOCK)

OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.
Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

✳ (MENU) ➔ (FEATURES menu) ➔ (OFF TIMER)

When the elapsed of time left one minute, “GOODNIGHT!” appears on the screen.
You can display the OFF TIMER menu again to confirm or change the remaining time.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

Customized setting (continued)

AUTO SHUTOFF

You can set the TV to turn off automatically when no signal is received for about 15 minutes or longer after the end of a broadcast.
Select AUTO SHUTOFF in INSTALL menu, then choose ON or OFF.

* (MENU) ➔ (INSTALL menu) ➔ (AUTO SHUTOFF)

The AUTO SHUTOFF function does not turn off the TV's main power.
The AUTO SHUTOFF function is not available in video mode.

EXT. INPUT (TV/VIDEO)

You can select TV or video terminal input with one touch.
Press the TV/VIDEO button to select an input.
To operate this function with a menu:

* (MENU) ➔ (INPUT menu) ➔ (EXT. INPUT)

DISPLAY

You can display the programme number, video terminal number, stereo/bilingual broadcast system and PR list on the screen.
Press the DISPLAY button to display the information on screen.
To operate this function with a menu:

* (MENU) ➔ (INPUT menu) ➔ (DISPLAY)

VIDEO-2 SETTING

You can set the VIDEO-2 SETTING according to the video signal output from the external devices connected to the VIDEO-2 terminal.
Select the VIDEO-2 SETTING in INSTALL menu, then choose a setting.

* (MENU) ➔ (INSTALL menu) ➔ (VIDEO-2 SETTING)

VIDEO	If a normal video signal (composite video signal) is input.
COMPONENT	If a component video signal ($Y/C_B/C_R$) is input.

For connecting methods, see "Additional Preparation" on page 22.

* About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

TV channel presetting

To register the TV channels automatically

You can register the TV channels into the TV's channel list automatically.

1 Display the INSTALL menu.
✳ (MENU) ➔ (INSTALL menu)

2 Choose AUTO PROGRAM, then press the MENU/OK button. AUTO PROGRAM function starts, and the channels received are registered in the channel list (PR LIST) automatically.

3 "SETUP TOUR RESTART?" appears.

To start the SETUP TOUR	Press the MENU/OK button. Then proceed to step 5 of "Setting up your TV" on page 8.
To skip the SETUP TOUR	Press the Red button.

4 The EDIT menu appears.

To edit the channel list	Proceed to the Step 3 of "To edit the channel list (PR LIST)" on page 20.
If a channel is not registered	Proceed to the Step 3 of "To register the TV channels manually" on this page.
To exit the menu	Press the MENU/OK button.

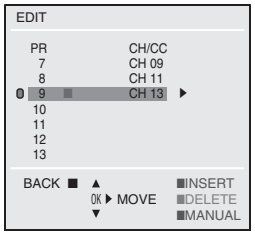
For details of "SETUP TOUR", see page 8.

To register the TV channels manually (MANUAL in the EDIT menu)

You can register the TV channels into the TV's channel list manually.

1 Display the INSTALL menu.
✳ (MENU) ➔ (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.



3 Choose the channel which you want to register.

4 Press the blue button to activate the MANUAL function.
The sound system of the channel appears at the right of the CH/CC number.

5 Press the ► button to choose an appropriate sound system.
For details, see "SOUND SYSTEM" on page 14.

6 Press the green or red button to search for the TV channel.
Searching stops when a channel is found and displayed.

7 Repeat step 5 until your desired TV channel appears.

If the reception is poor	Press the blue or yellow button to fine tune the TV channel.
If noisy sound is heard	Press the ► button to choose an appropriate sound system.

8 Press the MENU/OK button to exit the menu.

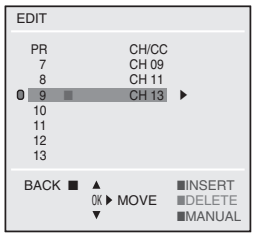
✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

To edit the channel list (PR LIST) (MOVE and DELETE in the EDIT menu)

You can edit the TV channel list as you like.
Note: After this operation, other channel's PR numbers will be changed.

1 Display the INSTALL menu.
✳ (MENU) ➔ (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.



3 Choose the channel which you want to change PR number, or delete.

4 Do the following action:

To change the PR number (MOVE)	Press the ► button. Then move it to the PR number you want to use it for the channel. Finally press the ◄ button.
To delete the channel (DELETE)	Press the yellow button.

5 Press the MENU/OK button to exit the menu.

To add in the new channel (INSERT in the EDIT menu)

You can add in the new channel in the TV channel list as you like.
You need to find the "CH/CC" number for the TV channel. Find the "CH/CC" number corresponding to the channel number of the TV channel from the attached sheet "CH/CC number list" on page 21.

1 Display the INSTALL menu.
✳ (MENU) ➔ (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.

3 Choose the PR number for which you will register a new TV channel. When you add a new TV channel of NTSC-M system, press the SOUND SYSTEM button to change the sound system to M. Then proceed to the next step.

4 Press the green button, then press ▲/▼ buttons to choose "CC" or "CH".

5 Press the number button to enter the remaining CH/CC number.
The TV starts to search the TV channel, and the picture of the TV channel appears. If the TV finds no TV channel, a noisy picture appears.

When a TV channel has already been registered in PR99, using the INSERT function deletes that TV channel.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

TV channel presetting (continued)

CH/CC number

When you want to use the INSERT function on page 20, find the CH/CC number corresponding to the channel number of the TV channel from this table.

Channel No.	Country
US	United States, Philippines, etc..
CCIR	Middle East, Southeast Asia, etc..
OIRT	Eastern Europe, Russia, Vietnam, etc..
AUSTRALIA	Australia, etc..

Channel

CH	US	CCIR	OIRT	AUSTRALIA
CH 02	US-2	E2	R1	AU-0
CH 03	US-3	E3		AU-1
CH 04	US-4	E4	R2	AU-2
CH 05	US-5	E5	R6	AU-6
CH 06	US-6	E6	R7	AU-7
CH 07	US-7	E7	R8	AU-8
CH 08	US-8	E8	R9	AU-9
CH 09	US-9	E9		
CH 10	US-10	E10	R10	AU-10
CH 11	US-11	E11	R11	AU-11
CH 12	US-12	E12	R12	
CH 13	US-13			
CH 14	US-14, W+29			
CH 15	US-15, W+30			
CH 16	US-16, W+31			
CH 17	US-17, W+32			
CH 18	US-18, W+33			
CH 19	US-19, W+34			
CH 20	US-20, W+35			
CH 21	US-21, W+36	E21		
CH 22	US-22, W+37	E22		
CH 23	US-23, W+38	E23		
CH 24	US-24, W+39	E24		
CH 25	US-25, W+40	E25		
CH 26	US-26, W+41	E26		
CH 27	US-27, W+42	E27		
CH 28	US-28, W+43	E28		
CH 29	US-29, W+44	E29		
CH 30	US-30, W+45	E30		
CH 31	US-31, W+46	E31		
CH 32	US-32, W+47	E32		
CH 33	US-33, W+48	E33		
CH 34	US-34, W+49	E34		
CH 35	US-35, W+50	E35		
CH 36	US-36, W+51	E36		
CH 37	US-37, W+52	E37		
CH 38	US-38, W+53	E38		
CH 39	US-39, W+54	E39		
CH 40	US-40, W+55	E40		
CH 41	US-41, W+56	E41		
CH 42	US-42, W+57	E42		
CH 43	US-43, W+58	E43		
CH 44	US-44, W+59	E44		
CH 45	US-45, W+60	E45		
CH 46	US-46, W+61	E46		
CH 47	US-47, W+62	E47		
CH 48	US-48, W+63	E48		
CH 49	US-49, W+64	E49		
CH 50	US-50, W+65	E50		
CH 51	US-51, W+66	E51		
CH 52	US-52, W+67	E52		
CH 53	US-53, W+68	E53		
CH 54	US-54, W+69	E54		
CH 55	US-55, W+70	E55		
CH 56	US-56, W+71	E56		
CH 57	US-57, W+72	E57		
CH 58	US-58, W+73	E58		
CH 59	US-59, W+74	E59		
CH 60	US-60, W+75	E60		
CH 61	US-61, W+76	E61		
CH 62	US-62, W+77	E62		
CH 63	US-63, W+78	E63		
CH 64	US-64, W+79	E64		
CH 65	US-65, W+80	E65		
CH 66	US-66, W+81	E66		
CH 67	US-67, W+82	E67		
CH 68	US-68, W+83	E68		
CH 69	US-69, W+84	E69		

CC	US	CCIR	OIRT	AUSTRALIA
CC 01		S-1		AU-5
CC 02		S-2		
CC 03		S-3		
CC 04		S-4		
CC 05		S-5		
CC 06		S-6		AU-5A
CC 07		S-7		
CC 08		S-8		
CC 09		S-9		
CC 10		S-10		
CC 11		S-11		
CC 12		S-12		
CC 13		S-13		
CC 14	A	S-14		
CC 15	B	S-15		
CC 16	C	S-16		
CC 17	D	S-17		
CC 18	E	S-18		
CC 19	F	S-19		
CC 20	G	S-20		
CC 21	H	S-21		
CC 22	I	S-22		
CC 23	J	S-23		
CC 24	K	S-24		
CC 25	L	S-25		
CC 26	M	S-26		
CC 27	N	S-27		
CC 28	O	S-28		
CC 29	P	S-29		
CC 30	Q	S-30		
CC 31	R	S-31		
CC 32	S	S-32		
CC 33	T	S-33		
CC 34	U	S-34		
CC 35	V	S-35		
CC 36	W	S-36		
CC 37	W+1	S-37		
CC 38	W+2	S-38		
CC 39	W+3	S-39		
CC 40	W+4	S-40		
CC 41	W+5	S-41		
CC 42	W+6			
CC 43	W+7			
CC 44	W+8			
CC 45	W+9			
CC 46	W+10			
CC 47	W+11			
CC 48	W+12			
CC 49	W+13			
CC 50	W+14			
CC 51	W+15			
CC 52	W+16			
CC 53	W+17			
CC 54	W+18			
CC 55	W+19			
CC 56	W+20			
CC 57	W+21			
CC 58	W+22			
CC 59	W+23			
CC 60	W+24			
CC 61	W+25			
CC 62	W+26			
CC 63	W+27			
CC 64	W+28			
CC 75		X		
CC 76		Y	R3	
CC 77		Z	R4	AU-3
CC 78		Z+1	R5	
CC 79		Z+2		AU-4
CC 95	A-5			
CC 96	A-4			
CC 97	A-3			
CC 98	A-2			
CC 99	A-1			

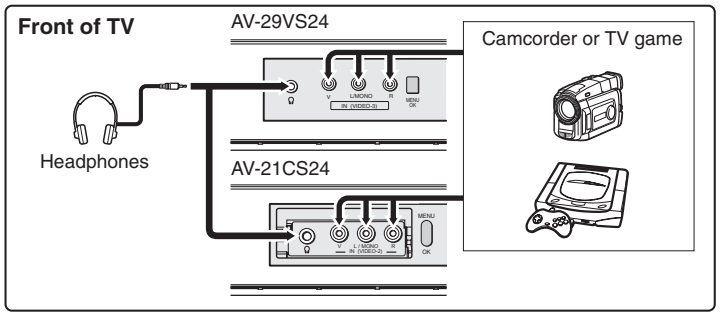
Additional preparation

The illustrations shown in this section are for AV-29VS24 and AV-21CS24 only, which are used for explanation purpose. Your TV may not look exactly the same as illustrated.

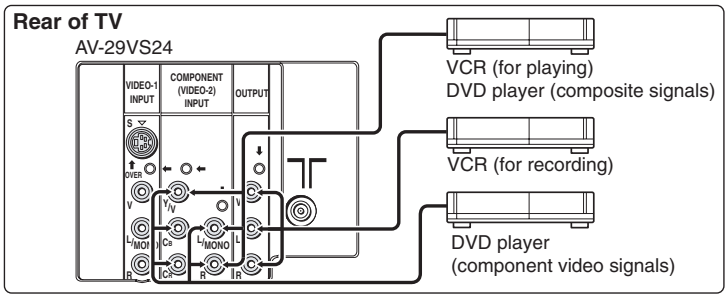
Before connecting

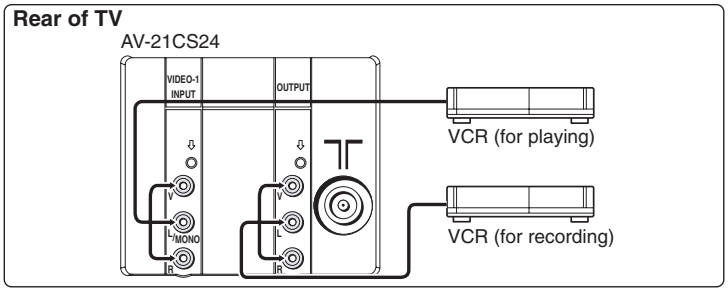
- Read the manuals provided with the devices for the proper connection.
- Turn off all the devices including the TV.
- Note that connecting cables are not supplied.

Connecting to front video input terminal



Connecting to rear component/video input terminal and output terminal





When you use VIDEO-1 INPUT, you should choose to connect S-VIDEO or video input. If S-VIDEO connector and video input are connected at the same time, no picture displays on the screen and the message “PLEASE DISCONNECT VIDEO-1 CABLE!” appears. In this case, you should disconnect either S-VIDEO or video input.

When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (see page 18).

Troubleshooting

If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

• No picture, no sound	• Deactivate the BLUE BACK function if it is turned on. • Choose the appropriate sound system. Refer to “SOUND SYSTEM” on page 14.
• Snowy picture	• Check the aerial cable and its connection with the TV.
• Stripes appear on the picture	• Interference occurs caused by other devices such as an amplifier, personal computer, or a hair drier. Move such devices away from your TV.
• Double-pictures (ghosting) occur	• Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial’s direction or use a better directionality antenna.
• Poor picture	• Choose the appropriate colour system. Refer to “COLOUR SYSTEM” on page 9. • Adjust the COLOUR or BRIGHT setting. Refer to “Adjusting the picture - USER” on page 10.
• White and bright still image look as if it were coloured	• Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.
• Top of the image from software products or video tape is distorted	• This is due to the condition of the video signal whereby the image was not recorded properly. This is not a malfunction.
• Poor sound	• Adjust the sound frequency properly. Refer to “EQUALIZER” on page 15.
• Stereo or bilingual sound is unclear	• TV channel reception is poor. Change the stereo/ bilingual mode to mono sound (see page 15).
• Cannot operate the remote control	• The batteries may be exhausted. Replace with new batteries (see page 7). • Ensure that you are operating the remote less than seven meters from the front of your TV.
• Cannot operate the menus	• Press TV/VIDEO button to return to TV mode and try operating the menus.
• Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on (see page 17).
• TV is turned off suddenly	• This may due to the AUTO SHUT OFF function is activated. Press the POWER button to turn on the TV.
• Colour patches appear at the corner of the screen	• This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic-shielded speaker.
• Picture is tilted	• This may due to the earth magnetism. Refer to “PICTURE TILT” on page 11 to correct the tilt.
• Image takes a short period to be displayed	• Image required time to stabilize before display. This is not a malfunction.
• TV may emitted crackling sound	• This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.
• Feel a slight electric shock when touching the TV screen	• This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.

Specifications

TV RF systems

B, G, I, D, K, M

Colour systems

PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz

Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U)
Receives cable channels in mid band, super band and hyper band.

External input / output

VIDEO-1:	S-video input*, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT:	VIDEO input, AUDIO L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input (Except for AV-21CS24/AV-21CX14/AV-21YX14)
VIDEO-3:	VIDEO input, AUDIO L/R input (Except for AV-21CS24/AV-21CX14/AV-21YX14)
OUTPUT:	VIDEO output, AUDIO L/R output
Headphone jack:	Stereo mini jack (3.5 mm diameter)

*Except for AV-29LS24/AV-29LX14/AV-25LS24/AV-25LX14/AV-21CS24/AV-21CX14/AV-21DX14/AV-21LX14/AV-21YX14.

****Sound-multiplex systems**

A2 or NICAM (B/G, I, D/K)

****Teletext system**

FLOF (Fastext), WST (World Standard Text)

****Language displayed by teletext**

Please see the table in the description “TEXT LANGUAGE” on page 13.

**Depends on the models, STEREO/I•II function for the Sound-multiplex systems or Teletext function may not be available. Please confirm with the chart on page 3.

Design and specifications subject to change without notice.

JVC
VICTOR COMPANY OF JAPAN, LIMITED

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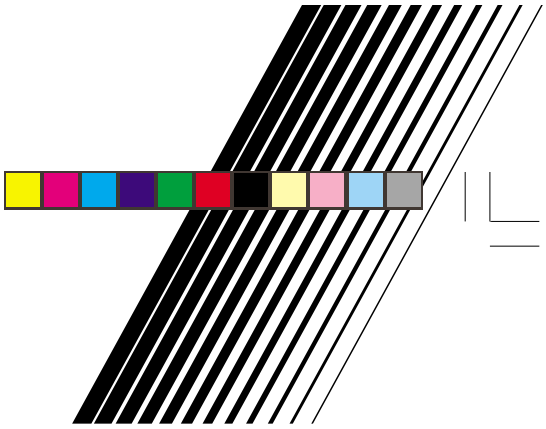

EQUALIZER • CINEMA SURROUND • COMPONENT INPUT

Contents

Knowing your TV's features 3
Remote control buttons and basic functions 4
TV buttons and functions 6
Setting up your TV 7
Basic setting for picture 9
Advanced setting for picture 11
Original features for picture 12
Basic setting for sound 14
Advanced setting for sound 15
Favorite channel and video setting 16
Customized setting 17
TV channel presetting 19
Additional preparation 22
Troubleshooting 23
Specifications ..... Back cover

INSTRUCTIONS

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for buying this JVC colour television.
your new TV, please read this manual thoroughly before you begin.

NOT
TURE.
THE
F THIS TV.

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chnician. Do

areful with it
d, wipe it
cleaner or

7 If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.
8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: <AV-2134YE/AV-2134WE/AV-2153WE/AV-2154WE only> A REMOVABLE PLASTIC COVER IS FIXED TO THE TELEVISION'S FRONT AUDIO/VIDEO CONNECTOR. TO PREVENT THIS COVER FROM BEING ACCIDENTALLY SWALLOWED BY BABIES OR CHILDREN, REMOVE IT FROM THE TELEVISION AND STORE IT IN A SAFE PLACE. IF THE COVER IS SWALLOWED SEEK THE ADVICE OF A DOCTOR IMMEDIATELY.

es

ou can view two different sources (e.g. TV programme and VCR sources) at the same me.
ou can view teletext programmes which are broadcasted by some TV channels. Teletext rogramme is an information in text form.
ou can listen to the stereo sound or bilingual sound from TV programme broadcasting by A2 r NICAM Sound-multiplex system.
ou can register up to four favorite channels for quick recall with one press.
V detects the brightness of your room and automatically adjust the picture brightness to a uitable level for a better eye care.
V adjusts the volume automatically to the same level for all TV channels to avoid sudden hange of the volume when selecting different TV channel.

ions

this instruction manual may not be available for your TV.
w and check the functions that are equipped for your TV's model number. The l at the rear of your TV. When you press a button concerned to a function that is t does not work and the logo "Ø" appears on the screen. For a function that is t is not displayed in the menu.

	AV-2984VE AV-2983VE	AV-2584VE AV-2184VE AV-2583VE	AV-2183VE	AV-2174VE	AV-2954WE AV-2953WE	AV-2554LE AV-2154LE AV-2553LE AV-2144LE AV-25LS24	AV-2154CE	AV-2154WE AV-2153WE	AV-2934WE	AV-2934LE	AV-2534LE	AV-2134WE	AV-2134YE	AV-29LS24
)	○	○	○	–	○	○	○	○	–	–	–	–	–	○
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nd basic functions

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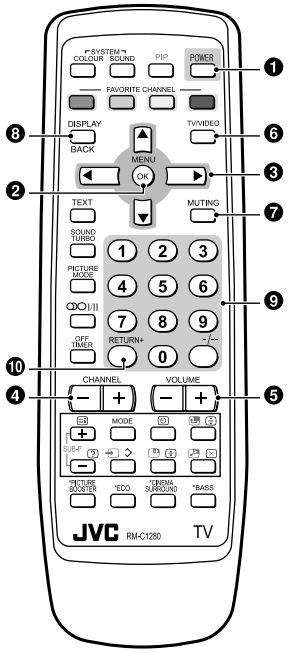
olume.
o terminal number, stereo/bilingual broadcast system

R list.
isplay the PR list.
se a channel, then press the MENU/OK button.
n the PR list. The channels set to favorite channels are

digits programme number, press -/--, then press the

l with one touch.
egister.
until “RETURN PLUS PROGRAMMED!” appears.
- button until “RETURN PLUS CANCELED!” appears.
nnel, if you have not set or have cancelled the Return



continued)

	Top menu	2nd menu	Location	3rd menu	Location
MENU	INPUT	EXT. INPUT	P.18	–	–
		DISPLAY	P.18	–	–
	PICTURE * If you want to adjust PICTURE SETTING menu, you must set PICTURE MODE menu to USER.	PICTURE MODE	P.9	–	–
		PICTURE SETTING	P.10	–	–
		WHITE BALANCE	P.10	–	–
		PICTURE FEATURES	–	VNR	P.17
				FAVORITE CH SETTING	P.16
				VIDEO SETTING	P.16
				COLOUR SYSTEM	P.9
				PICTURE BOOSTER	P.10
				COMPRESS (16:9)	P.11
				PICTURE TILT	P.11
	SOUND * If you want to adjust EQUALIZER menu, you must set SOUND MODE menu to USER.	STEREO/I•II	P.15	–	–
		AI VOLUME	P.15	–	–
		SOUND MODE	P.14	–	–
		EQUALIZER	P.15	–	–
		BALANCE	P.14	–	–
		SOUND TURBO	P.14	–	–
		CINEMA SURROUND	P.15	–	–
	FEATURES	OFF TIMER	P.17	–	–
		CHILD LOCK	P.17	–	–
		AI ECO SENSOR	P.11	–	–
		PIP	–	PIP,SUB INPUT,SWAP	P.12
	INSTALL	AUTO PROGRAM	P.19	–	–
		EDIT/MANUAL	P.19	DELETE, MOVE, MANUAL,INSERT	P.19-P.20
		LANGUAGE	P.17	LANGUAGE	P.17
		BLUE BACK	P.11	–	–
		AUTO SHUTOFF	P.18	–	–
		VIDEO-2 SETTING	P.18	–	–
		AI ECO DISPLAY	P.11	–	–
		TEXT LANGUAGE	P.13	TEXT LANGUAGE	P.13
	EXIT	–	–	–	–

Note

…e MENU,
…e DISPLAY
… or choose
…nu.

…button ❸ to
…he next page
… functions.

–

…e MENU/OK
… to exit from
…u.

–

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No.	Button/terminal	Description	Page
❶	⏻ (main power)	Press to turn on or turn off the TV's main power.	–
❷	POWER lamp	Indicate the TV is being turned on or off. No colour: TV's main power is being turned off. Red : TV's main power is being turned on. Note: When you turn off the power switch while TV is in standby mode, the light of power lamp will be off in 10 -15 seconds.	–
❸	ECO sensor		–
❹	Remote control sensor		–
❺	TV/ VIDEO	Press to select TV or video mode.	–
❻	VOLUME -/+	Press to adjust the volume level.	–
❼	CHANNEL -/+	Press to select the desired channel.	–
❽	MENU	Press to display the menu.	–
❾	IN (VIDEO-3)	Video and audio input jacks for VIDEO-3 mode.	22
	IN (VIDEO-2)	Video and audio input jacks for VIDEO-2 mode.	22
❿	🎧	Headphone jack.	22
⓫	⊤⊢	Aerial socket.	7
⓬	OUTPUT	Video and audio output jacks. (The component video signal cannot be output.)	22
⓭	COMPONENT (VIDEO-2) INPUT	Video or component video, and audio input jacks for VIDEO-2 mode. You can select the input signal by setting the "VIDEO-2 SETTING" function (see page 18).	22
⓮	VIDEO-1 INPUT	Video or S-VIDEO, and audio input jacks for VIDEO-1 mode	7
⓯	TIMER lamp	Indicate the OFF TIMER function is being turned on or off. No colour: The OFF TIMER function is being turned off. Orange : The OFF TIMER function is being turned on.	–

How to operate the menus with the TV button

TV button	Work as same as the button on the remote control unit	Note
MENU	MENU/OK button	To display main menu and exit menu after finish setting.
CHANNEL -/+	▲/▼ button	To select menu function.
VOLUME -/+	◄/► button	To adjust the desired function.

ecting.

aerial

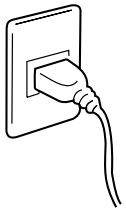
plied)

our VCR
connect the
the TV
audio

aerial

e as your

2 Connecting the compatible main plug to the AC outlet.



3 Inserting batteries into the remote control.

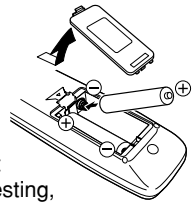
Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- It the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



4 Turn on the TV by pressing the main power button.

JVC logo appears on the screen.

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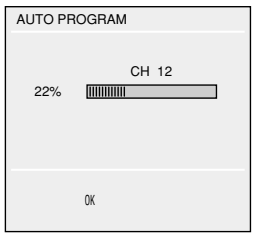
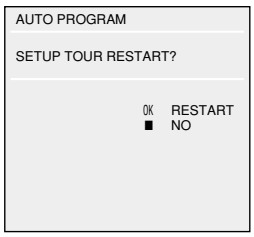
utton, then operate the TV menu by following the steps as below:

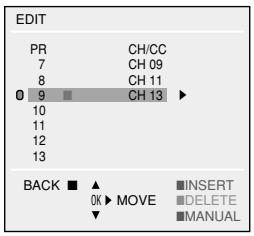


- TV will start searching for the channels.

  To stop AUTO PROGRAM, press MENU/OK button.



- Press the red button to cancel the SETUP TOUR RESTART function.
  If you want to make initial settings again when the next time you turn on the TV, press the MENU/OK button to activate the SETUP TOUR RESTART function.



- To complete the initial setting, press the MENU/OK button. To edit the channel list, see page 19.

XT LANGUAGE, and AUTO PROGRAM functions to make the initial settings.

tial settings, press the TV/VIDEO button to exit from initial settings.

picture is

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S menu

e table

	System
S,	PAL
	PAL
	PAL
	SECAM
	NTSC
	SECAM
	PAL
	PAL
	PAL
	PAL
	PAL
	PAL
	SECAM

PICTURE MODE

You can choose the desired picture setting with one-touch. Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT*)

*TINT can only be adjusted in NTSC system.

To operate this function with a menu:

✳ (MENU) ➡ (PICTURE menu) ➡ (PICTURE MODE)

To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.
Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.

✳ (MENU) ➔ (PICTURE menu) ➔ (WHITE BALANCE)

NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

2 Press the ▲/▼ buttons until the picture become level. Then press the MENU/OK button.

COMPRESS (16:9)

You can convert a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).
Select the COMPRESS (16:9) in the PICTURE FEATURES menu under PICTURE menu, then choose ON or OFF.

✵ MENU ➔ PICTURE menu ➔ PICTURE FEATURES menu ➔ COMPRESS (16:9)

BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

Select the BLUE BACK in the INSTALL menu, then choose ON or OFF.

✵ MENU ➔ INSTALL menu ➔ BLUE BACK

If you wish to continue viewing the poor picture, cancel the BLUE BACK function.

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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When VIDEO-2 is set to component, if the input source of main picture is set to VIDEO-2 with component, PIP button is disabled and sub picture can't be displayed.

TELETEXT

You can watch the Teletext broadcast channel with TEXT function.

1 Press the TEXT button to select the desired mode as follows:

→ TV mode → TEXT mode → MIX mode →

2 Press the CHANNEL -/+ buttons, number buttons or colour buttons to select other Teletext pages.

3 Press TEXT or TV/VIDEO button to return to TV mode.

You can also operate the teletext using the following buttons:

(Hold)	Hold a teletext page. The (hold) are displayed at the top left of the screen. To cancel, press (Hold) button again.
(Reveal)	Display the hidden text (e.g. answers to a quiz). To cancel, press (Reveal) button again.
(Size)	Enlarge the teletext display.
(Index)	Return to the index page instantly.
(Cancel)	Watch TV programme while waiting for a teletext page. When the teletext page is found, a page number appears at the upper left of the screen. Press (Cancel) to view the teletext page.
(Sub-page)	Operate the (Sub-page) function. Sub-page numbers are displayed at the left of the screen. To cancel sub-page function, press (Sub-page) button again.

✳ About the basic operations of the menu, please see the "How to operate menus and menus locations" on page 5.

TEXT LANGUAGE

You can set the Teletext language group that corresponds to the programmes.
Select TEXT LANGUAGE in the INSTALL menu, then choose the desired language group.

✵ (MENU) ➔ (INSTALL menu) ➔ (TEXT LANGUAGE)

GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
GROUP-4	English, French, Turkish, Arabic, Iranian

Depending on the broadcast, the language set may not display properly.

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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e table

	System
	B/G
	D/K
	I
	B/G
	M
	D/K
	D/K
	B/G
	I
	B/G
	I
	B/G
	B/G

SOUND MODE

You can choose the desired sound setting.
Select the SOUND MODE in SOUND menu, then choose the setting.

✵ (MENU) ➡ (SOUND menu) ➡ (SOUND MODE)

USER	You can change this sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (0.1, 0.3, 1.0, 3.0, 8.0KHz). For details, see “EQUALIZER” on page 15.
DYNAMIC	Emphasize on both vocal sound and music.
MUSIC	Emphasize on music effect.
NEWS	Emphasize on vocal sound.

BALANCE

You can adjust the volume balance between the left and right speakers.
Select the BALANCE in SOUND menu, then adjust the setting.

✵ (MENU) ➡ (SOUND menu) ➡ (BALANCE)

SOUND TURBO

You can set the sound frequency to emphasize the low and high frequency levels.

Press the SOUND TURBO to select ON or OFF.
To operate this function with a menu:

✵ (MENU) ➡ (SOUND menu) ➡ (SOUND TURBO)

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

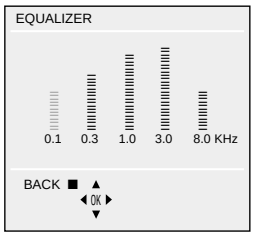
EQUALIZER

You can adjust the sound frequencies when selecting USER mode in SOUND MODE.

1 Select the USER in SOUND MODE under SOUND menu.
❋ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE) ➔ (USER)

2 Select the EQUALIZER in SOUND menu.
❋ (MENU) ➔ (SOUND menu) ➔ (EQUALIZER)

The following display appears.



3 Select and adjust the desired frequencies.

4 Press the MENU/OK button to exit the menu.

Adjust high frequency will affect higher pitch sound and vice versa.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically.
Select the AI VOLUME in SOUND menu, then choose ON or OFF.

❋ (MENU) ➔ (SOUND menu) ➔ (AI VOLUME)

❋ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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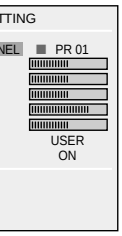


4 Select the desired item that you wish to adjust.

→ CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR ←
→ SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT ←

5 Press the MENU/OK button to exit the menu.

To adjust the video setting (VIDEO SETTING)

You can adjust the picture and sound settings for video inputs.

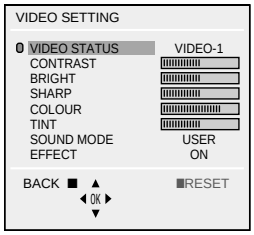
1 Display the PICTURE menu and select VIDEO SETTING in PICTURE FEATURES menu.

✵ (MENU) ➔ (PICTURE menu) ➔ (PICTURE FEATURES menu) ➔ (VIDEO SETTING)

2 Select VIDEO STATUS in VIDEO SETTING menu, then choose the desired video input.

✵ (VIDEO SETTING) ➔ (VIDEO STATUS)

3 Select EFFECT, then press ◄/► button to choose ON.
To cancel the settings, choose OFF.



4 Select the desired item that you wish to adjust.

→ CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR ←
→ SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT ←

5 Press the MENU/OK button to exit the menu.

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

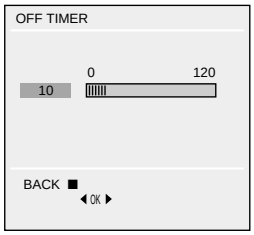
CHILD LOCK

You can disable the front control buttons of the TV.
Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.

✵ (MENU) ➔ (FEATURES menu) ➔ (CHILD LOCK)

OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.
Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

✵ (MENU) ➔ (FEATURES menu) ➔ (OFF TIMER)

When the elapsed of time left one minute, “GOODNIGHT!” appears on the screen.
You can display the OFF TIMER menu again to confirm or change the remaining time.

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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VIDEO-2 SETTING

You can set the VIDEO-2 SETTING according to the video signal output from the external devices connected to the VIDEO-2 terminal.
Select the VIDEO-2 SETTING in INSTALL menu, then choose a setting.

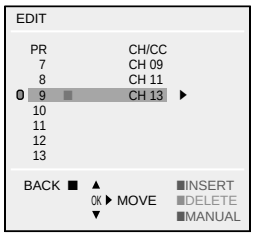
❋ (MENU) ➔ (INSTALL menu) ➔ (VIDEO-2 SETTING)

VIDEO	If a normal video signal (composite video signal) is input.
COMPONENT	If a component video signal (Y/C_B/C_R) is input.

For connecting methods, see “Additional Preparation” on page 22.

❋ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.



3 Choose the channel which you want to register.

4 Press the blue button to activate the MANUAL function.
The sound system of the channel appears at the right of the CH/CC number.

5 Press the ► button to choose an appropriate sound system.
For details, see “SOUND SYSTEM” on page 14.

6 Press the green or red button to search for the TV channel.
Searching stops when a channel is found and displayed.

7 Repeat step 5 until your desired TV channel appears

If the reception is poor	Press the blue or yellow button to fine tune the TV channel.
If noisy sound is heard	Press the ► button to choose an appropriate sound system.

8 Press the MENU/OK button to exit the menu.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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number, or

o the PR
hannel.

To add in the new channel (INSERT in the EDIT menu)

You can add in the new channel in the TV channel list as you like. You need to find the “CH/CC” number for the TV channel. Find the “CH/CC” number corresponding to the channel number of the TV channel from the attached sheet “CH/CC number list” on page 21.

1 Display the INSTALL menu.
✵ (MENU) ➔ (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.

3 Choose the PR number for which you will register a new TV channel. When you add a new TV channel of NTSC-M system, press the SOUND SYSTEM button to change the sound system to M. Then proceed to the next step.

4 Press the green button, then press ▲/▼ buttons to choose “CC” or “CH”.

5 Press the number button to enter the remaining CH/CC number.
The TV starts to search the TV channel, and the picture of the TV channel appears. If the TV finds no TV channel, a noisy picture appears.

When a TV channel has already been registered in PR99, using the INSERT function deletes that TV channel.

✵ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

US	CCIR	OIRT	AUSTRALIA
S-33, W+48	E33		
S-34, W+49	E34		
S-35, W+50	E35		
S-36, W+51	E36		
S-37, W+52	E37		
S-38, W+53	E38		
S-39, W+54	E39		
S-40, W+55	E40		
S-41, W+56	E41		
S-42, W+57	E42		
S-43, W+58	E43		
S-44, W+59	E44		
S-45, W+60	E45		
S-46, W+61	E46		
S-47, W+62	E47		
S-48, W+63	E48		
S-49, W+64	E49		
S-50, W+65	E50		
S-51, W+66	E51		
S-52, W+67	E52		
S-53, W+68	E53		
S-54, W+69	E54		
S-55, W+70	E55		
S-56, W+71	E56		
S-57, W+72	E57		
S-58, W+73	E58		
S-59, W+74	E59		
S-60, W+75	E60		
S-61, W+76	E61		
S-62, W+77	E62		
S-63, W+78	E63		
S-64, W+79	E64		
S-65, W+80	E65		
S-66, W+81	E66		
S-67, W+82	E67		
S-68, W+83	E68		
S-69, W+84	E69		

US	CCIR	OIRT	AUSTRALIA
	S-1		AU-5
	S-2		
	S-3		
	S-4		
	S-5		
	S-6		AU-5A
	S-7		
	S-8		
	S-9		
	S-10		
	S-11		
	S-12		
	S-13		
A	S-14		
B	S-15		
C	S-16		
D	S-17		

CC	US	CCIR	OIRT	AUSTRALIA
CC 18	E	S-18		
CC 19	F	S-19		
CC 20	G	S-20		
CC 21	H	S-21		
CC 22	I	S-22		
CC 23	J	S-23		
CC 24	K	S-24		
CC 25	L	S-25		
CC 26	M	S-26		
CC 27	N	S-27		
CC 28	O	S-28		
CC 29	P	S-29		
CC 30	Q	S-30		
CC 31	R	S-31		
CC 32	S	S-32		
CC 33	T	S-33		
CC 34	U	S-34		
CC 35	V	S-35		
CC 36	W	S-36		
CC 37	W+1	S-37		
CC 38	W+2	S-38		
CC 39	W+3	S-39		
CC 40	W+4	S-40		
CC 41	W+5	S-41		
CC 42	W+6			
CC 43	W+7			
CC 44	W+8			
CC 45	W+9			
CC 46	W+10			
CC 47	W+11			
CC 48	W+12			
CC 49	W+13			
CC 50	W+14			
CC 51	W+15			
CC 52	W+16			
CC 53	W+17			
CC 54	W+18			
CC 55	W+19			
CC 56	W+20			
CC 57	W+21			
CC 58	W+22			
CC 59	W+23			
CC 60	W+24			
CC 61	W+25			
CC 62	W+26			
CC 63	W+27			
CC 64	W+28			
CC 75		X		
CC 76		Y	R3	
CC 77		Z	R4	AU-3
CC 78		Z+1	R5	
CC 79		Z+2		AU-4
CC 95	A-5			
CC 96	A-4			
CC 97	A-3			
CC 98	A-2			
CC 99	A-1			

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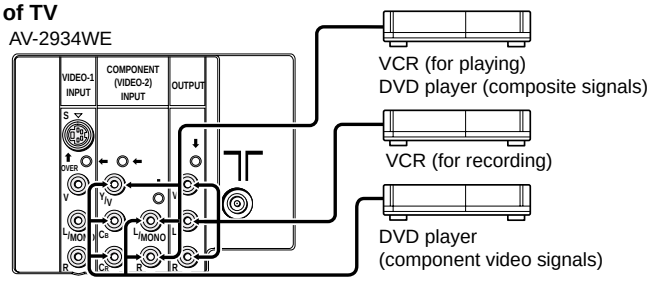
TV game

Connecting to rear component/video input terminal and output terminal

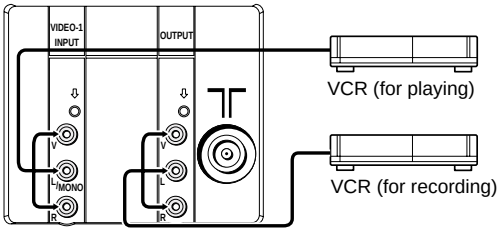
Rear of TV

AV-2934WE



Rear of TV

AV-2134YE



When you use VIDEO-1 INPUT, you should choose to connect S-VIDEO or video input. If S-VIDEO connector and video input are connected at the same time, no picture display on the screen and the message “PLEASE DISCONNECT VIDEO-1 CABLE!” appears. In this case, you should disconnect either S-VIDEO or video input.

When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (see page 18).

• Cannot operate the remote control	• The batteries may be exhausted. Replace with new batteries (see page 7). • Ensure that you are operating the remote less than seven meters from the front of your TV.
• Cannot operate the menus	• Press TV/VIDEO button to return to TV mode and try operating the menus.
• Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on (see page 17).
• TV is turned off suddenly	• This may due to the AUTO SHUT OFF function is activated. Press the POWER button to turn on the TV.
• Colour patches appear at the corner of the screen	• This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic-shielded speaker.
• Picture is tilted	• This may due to the earth magnetism. Refer to “PICTURE TILT” on page 11 to correct the tilt.
• Image takes a short period to be displayed	• Image required time to stabilize before display. This is not a malfunction.
• TV may emitted crackling sound	• This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.
• Feel a slight electric shock when touching the TV screen	• This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.

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UHF channel (U)
nd and hyper band.

O input, AUDIO L/R input
L/R input, COMPONENT VIDEO (Y/C_B/C_R) input (Except for AV-2134YE/

L/R input (Except for AV-2134YE/AV-2154CE.)
O L/R output
mm diameter)
4LE/AV-2554LE/AV-25LS24/AV-2134YE/AV-2144LE/AV-2154CE/AV-2154LE.

ANGUAGE" on page 13.
Sound-multiplex systems may not be available. Please confirm with the chart

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JVC
VICTOR COMPANY OF JAPAN, LIMITED

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